


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER Bell 3-28C4				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038				
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Judy A Bell						14. SURFACE OWNER PHONE (if box 12 = 'fee') 801-718-6060				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 450 Hillside Drive #313A, Mesquite, NV 89027						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		700 FNL 1359 FEL		NWNE	28	3.0 S	4.0 W	U		
Top of Uppermost Producing Zone		700 FNL 1359 FEL		NWNE	28	3.0 S	4.0 W	U		
At Total Depth		700 FNL 1359 FEL		NWNE	28	3.0 S	4.0 W	U		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 700			23. NUMBER OF ACRES IN DRILLING UNIT 640				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2100			26. PROPOSED DEPTH MD: 11500 TVD: 11500				
27. ELEVATION - GROUND LEVEL 5840			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City				
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	13.375	0 - 600	54.5	J-55 ST&C	9.0	Class G	1292	1.15	15.8
Surf	12.25	9.625	0 - 2500	40.0	N-80 LT&C	9.3	Unknown	312	3.16	11.0
							Unknown	191	1.33	14.3
I1	8.75	7	0 - 8600	29.0	HCP-110 LT&C	10.5	Unknown	399	2.31	12.0
							Unknown	91	1.91	12.5
L1	6.125	5	8400 - 11500	18.0	HCP-110 LT&C	13.5	Unknown	184	1.47	14.2
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Maria S. Gomez				TITLE Principal Regulatory Analyst			PHONE 713 997-5038			
SIGNATURE				DATE 07/09/2013			EMAIL maria.gomez@epenergy.com			
API NUMBER ASSIGNED 43013522910000				APPROVAL  Permit Manager						

**Bell 3-28C4  
Sec. 28, T3S, R4W  
DUCHESNE COUNTY, UT**

**EP ENERGY E&P COMPANY, L.P.**

**DRILLING PROGRAM**

**1. Estimated Tops of Important Geologic Markers**

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,707' TVD
Green River (GRTN1)	4,437' TVD
Mahogany Bench	5,347' TVD
L. Green River	6,657' TVD
Wasatch	8,507' TVD
T.D. (Permit)	11,500' TVD

**2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,707' MD / TVD
	Green River (GRTN1)	4,437' MD / TVD
	Mahogany Bench	5,347' MD / TVD
Oil	L. Green River	6,657' MD / TVD
Oil	Wasatch	8,507' MD / TVD

**3. Pressure Control Equipment: (Schematic Attached)**

A 4.5" by 20.0" rotating head on structural pipe from surface to 600' MD/TVD. A 4.5" by 13-3/8" Smith Rotating Head from 600' MD/TVD to 2,500' MD/TVD on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 2,500' MD/TVD to 8,600' MD/TVD. A 10M BOE w/ rotating head, 5M annular, blind rams & mud cross from 8,600' MD/TVD to TD (11,500' MD/TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

**OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:**

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly

cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 3-½" pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

**Statement on Accumulator System and Location of Hydraulic Controls:**

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

**Auxiliary Equipment:**

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 2,500' to TD (11,500' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

**4. Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

**5. Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	9.0 – 9.3
Intermediate	WBM	9.0 – 10.5
Production	WBM	10.5 – 13.5

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 2,500' MD/TVD – TD (11,500' MD/TVD)

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 11,500' TVD equals approximately 8,073 psi. This is calculated based on a 0.702 psi/ft gradient (13.5 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 5,543 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,600' TVD = 6,880 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 5,543 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**



LOGS	TOPS	DEPTH	HOLE SIZE	MECHANICAL CASING SIZE	MUD WEIGHT
		600 ' MD/TVD		13 3/8" 54.5 J-55 STC	
		Base MSGW 1060'	12-1/4"	9-5/8" 40# N-80 LTC	9.0 - 9.3 ppg WBM
			TOC @ 2000		
		2,500 ' MD/TVD			
		Mud Logger @ 2,500'	FIT to 0.8 psi/ft		
		Green River (GRRV) 3707'			
		Green River (GRTN1) 4437'			
		Mahogany Bench 5347'	8-3/4"	7" 29# HCP-110 LTC	9.0 - 10.5 ppg WBM
		Lower Green River (TGR3) 6657'			
		Wasatch (W090TU2) 8507'			
		8,600 MD/TVD			
			TOL @ 8400 TOC @ 8400		
			FIT to 0.8 psi/ft		
			6-1/8"	5" 18# HCP-110 STL	10.5 - 13.5 ppg WBM
		11,500 MD/TVD			

RECEIVED: July 09, 2013

**DRILLING PROGRAM**

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	2500	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	8600	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8400	11500	18.00	HCP-110	LTC	13,950	14,360	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	1292	100%	15.8 ppg	1.15
SURFACE	Lead	2,000	EXTENDACEM (TM) SYSTEM: 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 2% Bentonite	312	75%	11.0 ppg	3.16
	Tail	500	HALCEM (TM) SYSTEM: 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.5% HR-5	191	50%	14.3 ppg	1.33
INTERMEDIATE	Lead	5,600	EXTENDACEM (TM) SYSTEM: 4% Bentonite + 0.4% Econolite + 0.2% Halad(R)-322 + 3 lbm/sk Silicalite Compacted + 1.2% HR-5 + 0.125 lbm/sk Poly-E-Flake	399	10%	12.0 ppg	2.31
	Tail	1,000	EXPANDACEM (TM) SYSTEM: 0.2% Econolite + 0.3% Versaset + 0.9% HR-5 + 0.3% Super CBL + 0.2% Halad(R)-322 + 0.125 lbm/sk Poly-E-Flake	91	10%	12.5 ppg	1.91
PRODUCTION LINER		3,100	EXTENDACEM (TM) SYSTEM: 0.3% Super CBL + 0.1% SA-1015 + 0.3% Halad(R)-413 + 0.5% SCR-100 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SSA-1	184	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 8,000'.
LINER	Float shoe, 1 joint, float collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Brad MacAfee 713-997-6383

MANAGER: Tommy Gaydos

EP ENERGY E&P COMPANY, L.P.  
BELL 3-28C4  
SECTION 28, T3S, R4W, U.S.B.&M.

PROCEED NORTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 3.51 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EASTERLY 2.54 MILES ON A GRAVEL COUNTY ROAD TO THE ACCESS ROAD TO THE EUGSTER 2-28C4;

TURN RIGHT AND TRAVEL SOUTHERLY 1.00 ALONG PREVIOUSLY STAKED ACCESS ROAD TO THE BEGINNING OF THE PROPOSED ACCESS ROAD;

TURN LEFT AND TRAVEL SOUTHEASTERLY 0.27 MILES ALONG PROPOSED ACCESS ROAD TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 7.32 MILES.

**EP ENERGY E & P COMPANY, L.P.****FIGURE #1**

LOCATION LAYOUT FOR

BELL 3-28C4

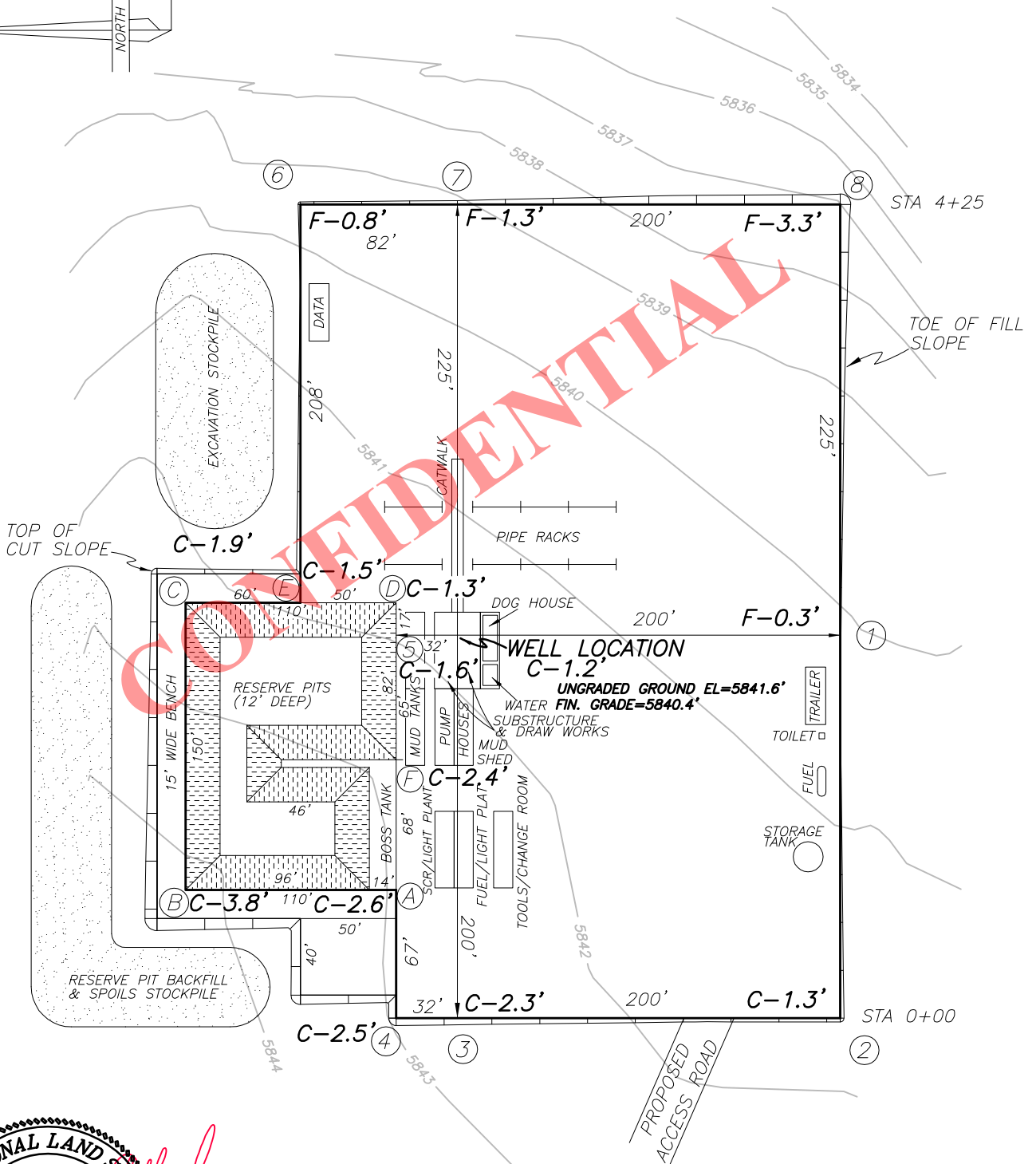
SECTION 28, T3S, R4W, U.S.B.&amp;M.

700' FNL, 1359' FEL

SCALE: 1"=80'

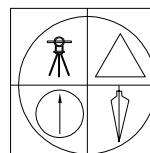
PREVAILING WIND  
DIRECTION

NORTH



9 APR 2013

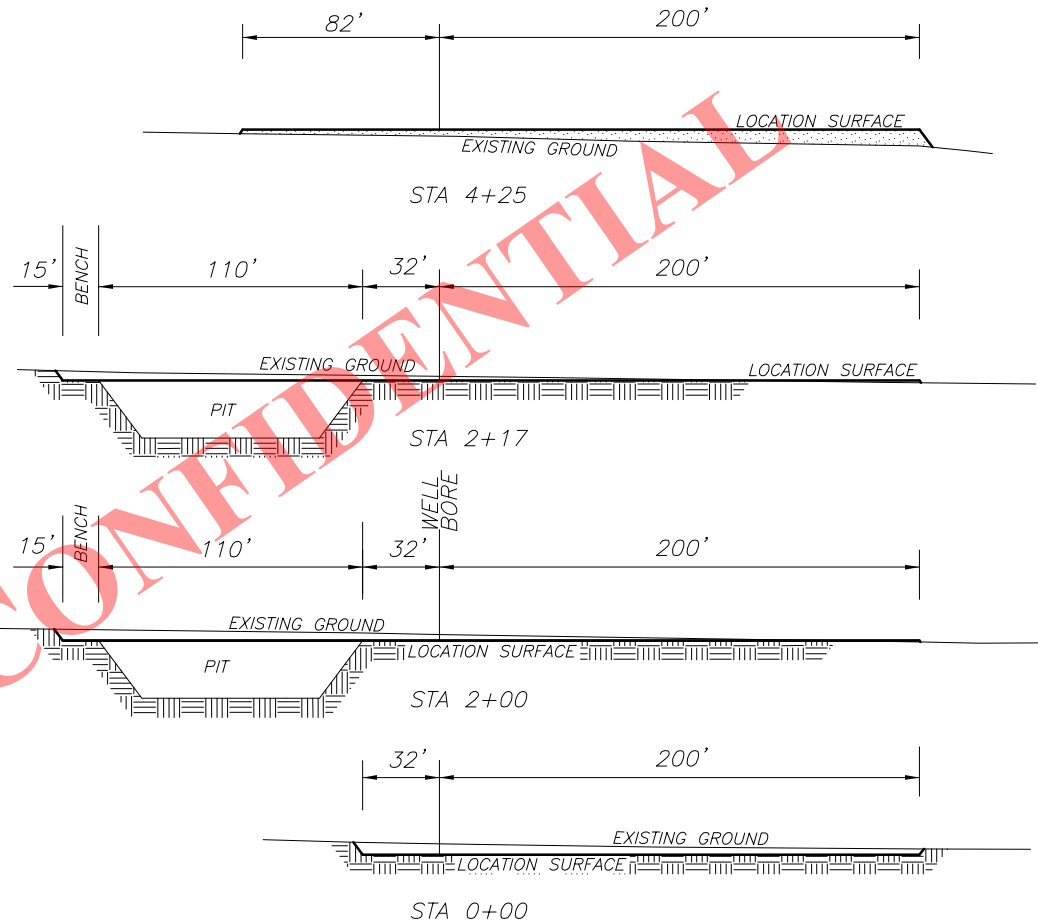
01-128-387

**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS1235 NORTH 700 EAST--P.O. BOX 975  
DUCHESNE, UTAH 84021  
(435) 738-5352**RECEIVED:** July 09, 2013

**EP ENERGY E & P COMPANY, L.P.****FIGURE #2****LOCATION LAYOUT FOR****BELL 3-28C4****SECTION 28, T3S, R4W, U.S.B.&M.****700' FNL, 1359' FEL**

X-SECTION  
SCALE  
1"=40'  
1"=80'

NOTE: ALL CUT/FILL  
SLOPES ARE 1½:1  
UNLESS OTHERWISE  
NOTED

APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 10,509 CU. YDS.

PIT CUT = 4572 CU. YDS.

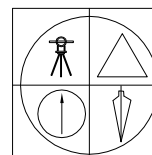
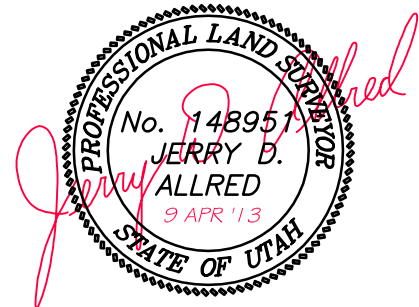
TOPSOIL STRIPPING: (6") = 2539 CU. YDS.

REMAINING LOCATION CUT = 3398 CU. YDS

TOTAL FILL = 2267 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=360 CU. YDS.



**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

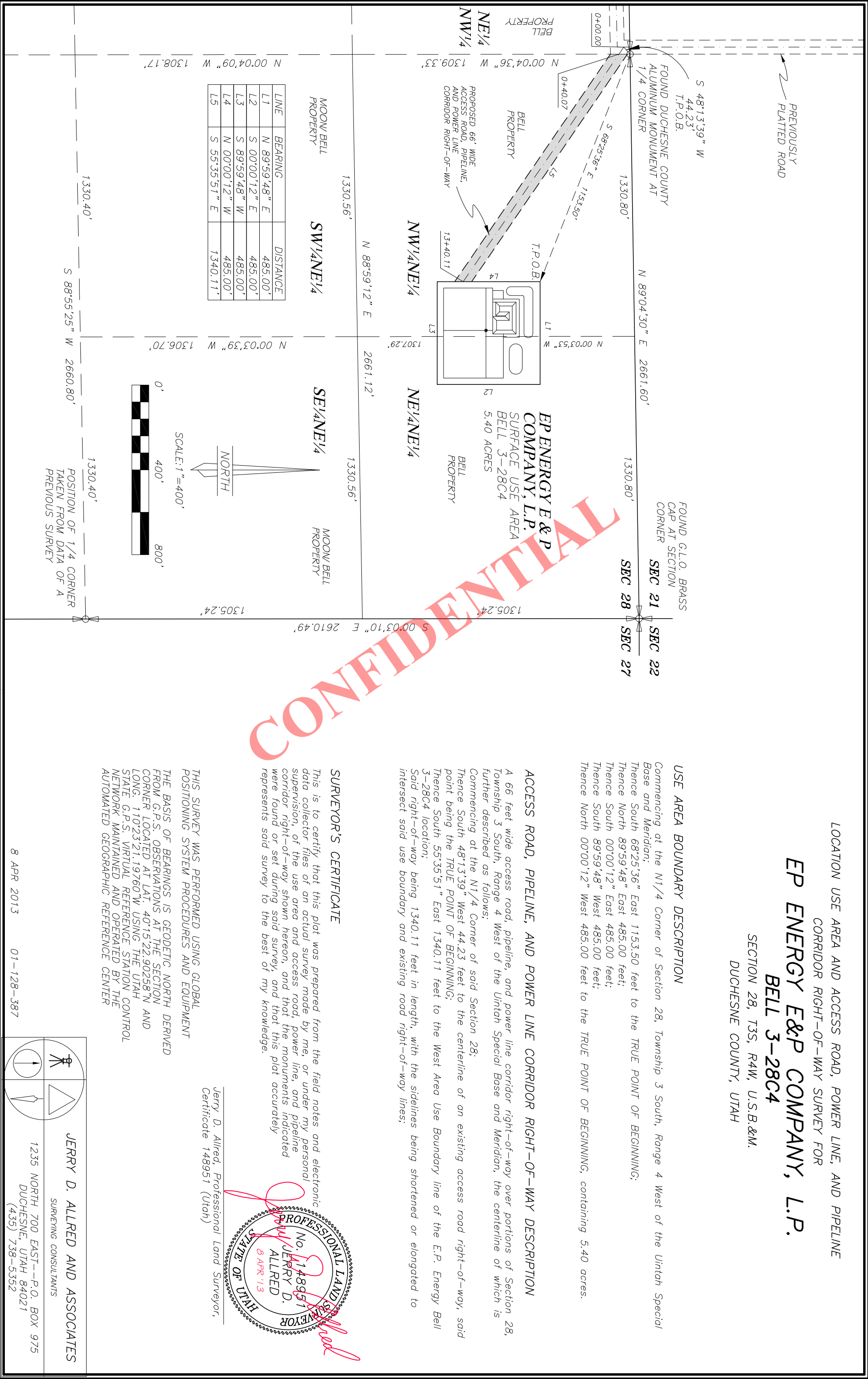
1235 NORTH 700 EAST--P.O. BOX 975  
DUCHESE, UTAH 84021  
(435) 738-5352

9 APR 2013

01-128-387

**RECEIVED: July 09, 2013**

RECEIVED: July 09, 2013



LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE  
CORRIDOR RIGHT-OF-WAY SURVEY FOR  
**EP ENERGY E&P COMPANY, L.P.**  
**BELL 3-28C4**  
SECTION 28, T3S, R4W, U.S.B.&M.  
DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

Commencing at the N1/4 Corner of Section 28, Township 3 South, Range 4 West of the Uintah Special Base and Meridian;

Thence South 68°25'36" East 1153.50 feet to the TRUE POINT OF BEGINNING;

Thence North 89°59'48" East 485.00 feet;

Thence South 00°00'12" East 485.00 feet;

Thence South 89°59'48" West 485.00 feet;

Thence North 00°00'12" West 485.00 feet to the TRUE POINT OF BEGINNING, containing 5.40 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, pipeline, and power line corridor right-of-way over portions of Section 28, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows:

Commencing at the N1/4 Corner of said Section 28;

Thence South 48°13'39" West 44.23 feet to the centerline of an existing access road right-of-way, said point being the TRUE POINT OF BEGINNING;

Thence South 55°35'51" East 1340.11 feet to the West Area Use Boundary line of the E.P. Energy Bell 3-28C4 location;

Said right-of-way being 1340.11 feet in length, with the sidelines being shortened or elongated to intersect said use boundary and existing road right-of-way lines;

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.



Jerry D. Allred, Professional Land Surveyor,  
Certificate 148951 (Utah)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

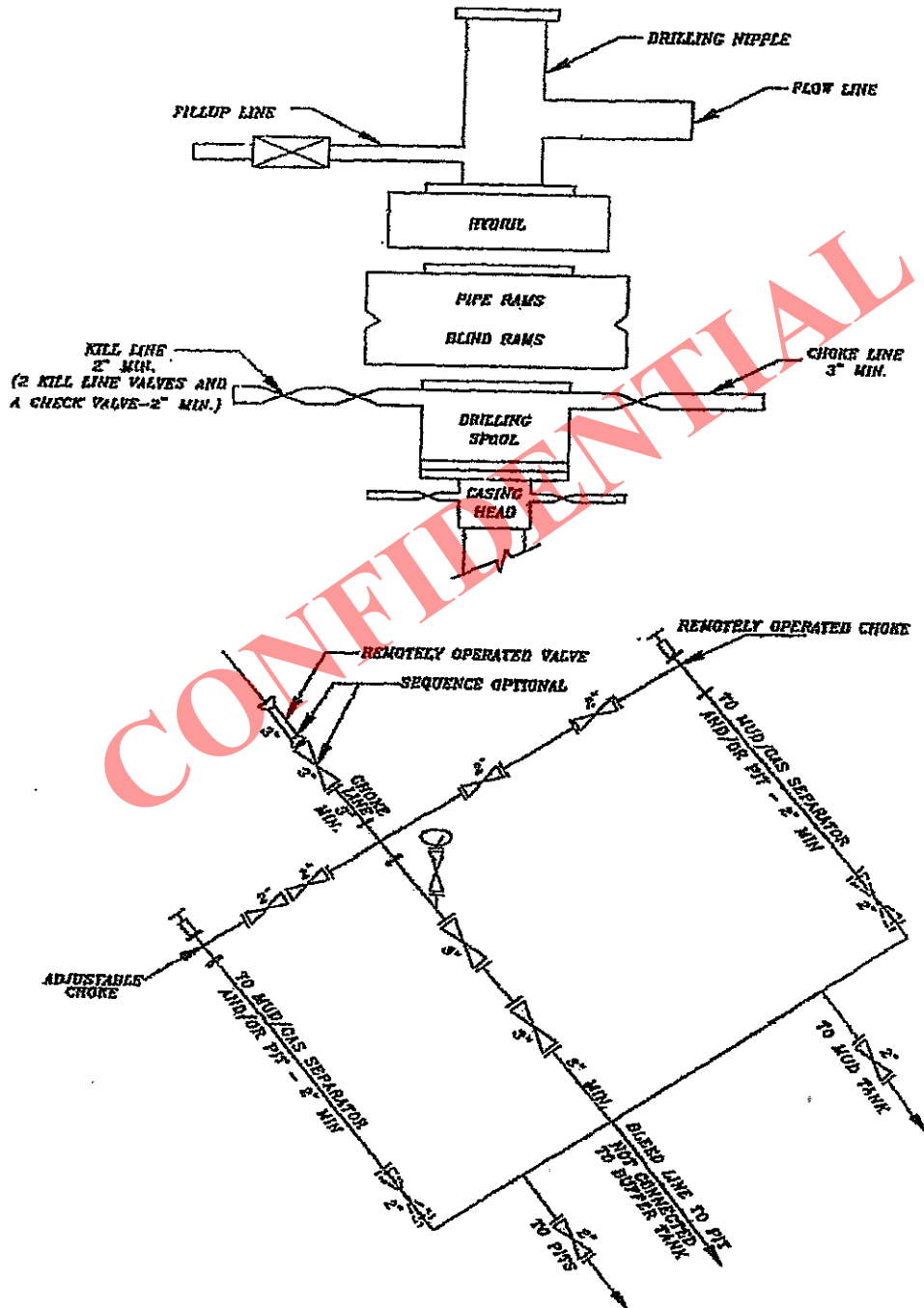
8 APR 2013 01-128-387

JERRY D. ALLRED AND ASSOCIATES

SURVEYING CONSULTANTS

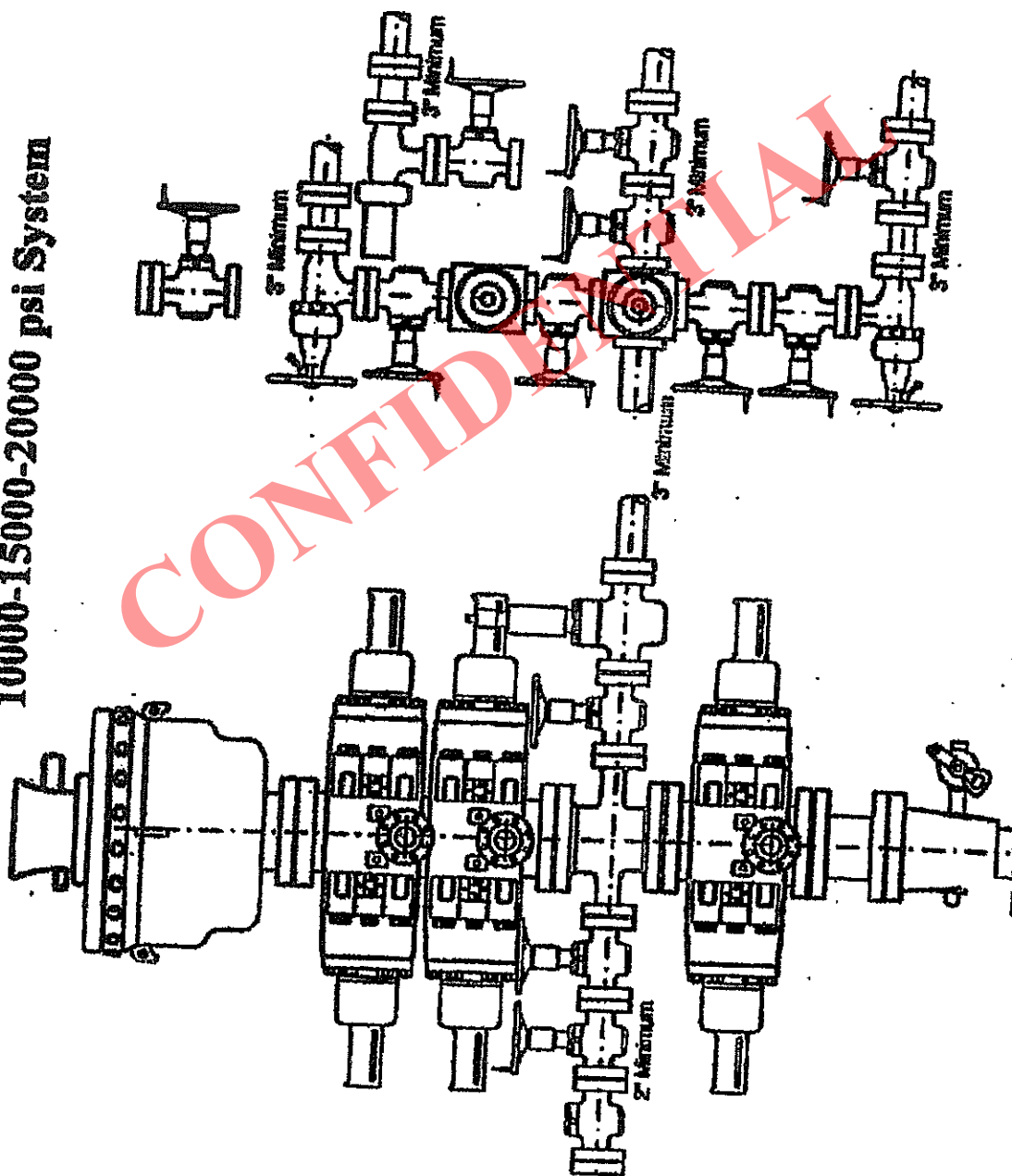
1235 NORTH 700 EAST--P.O. BOX 975  
DUCHESNE, UTAH 84021  
(435) 738-5352

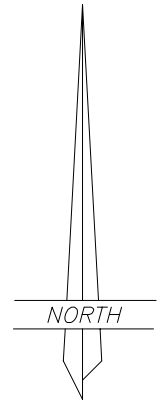
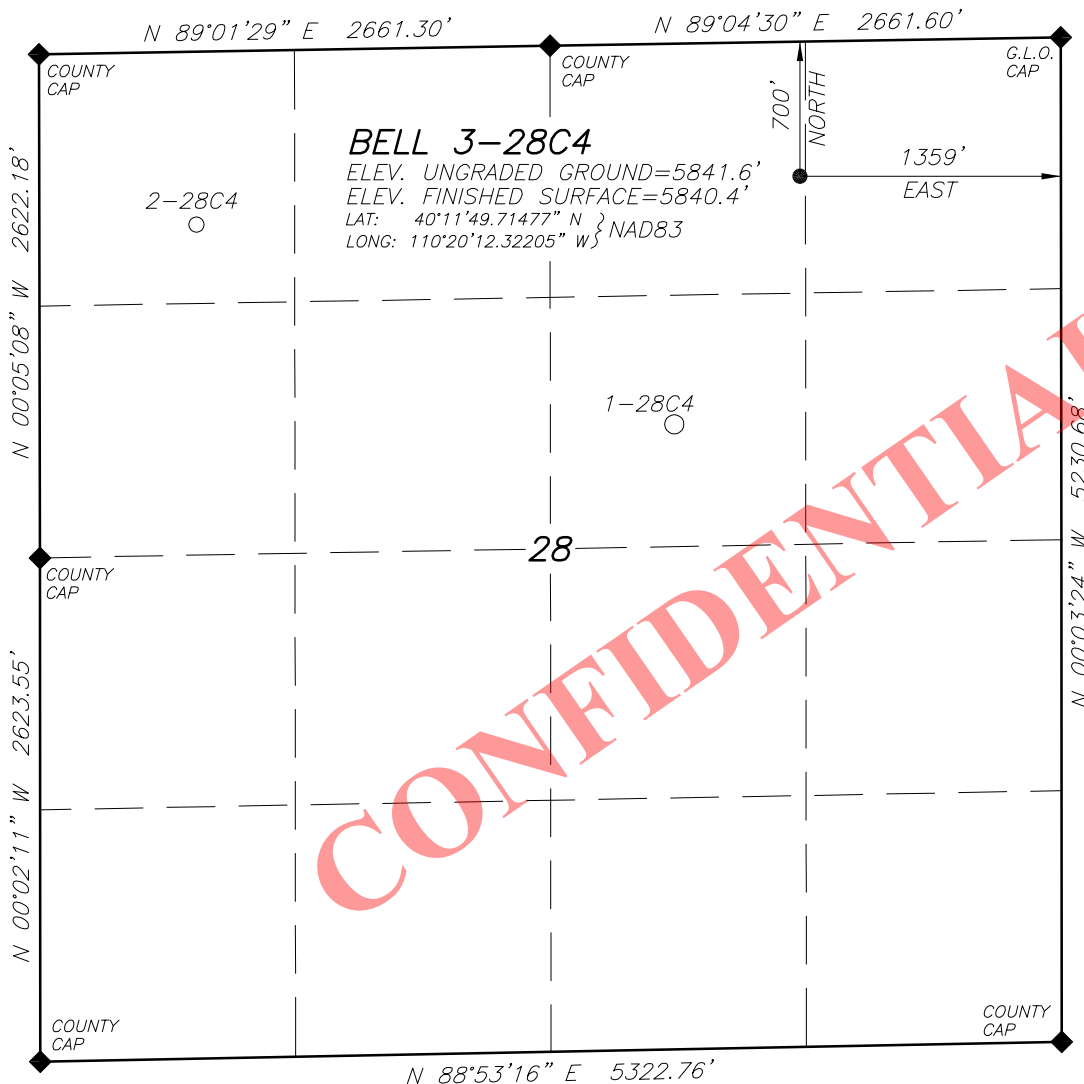
# 5M BOP STACK and CHOKE MANIFOLD SYSTEM





10000-15000-20000 psi System



**EP ENERGY E & P COMPANY, L.P.****WELL LOCATION****BELL 3-28C4**LOCATED IN THE NW¼ OF THE NE¼ OF  
SECTION 28, T3S, R4W, U.S.B.&M.  
DUCHESE COUNTY, UTAH

SCALE: 1"=1000'



NOTE:  
NAD27 VALUES FOR  
WELL POSITION:  
LAT: 40.197185278° N  
LONG: 110.336045658° W

**LEGEND AND NOTES**

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

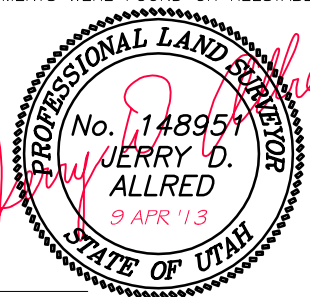
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

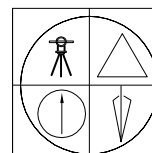
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,  
CERTIFICATE NO. 148951 (UTAH)



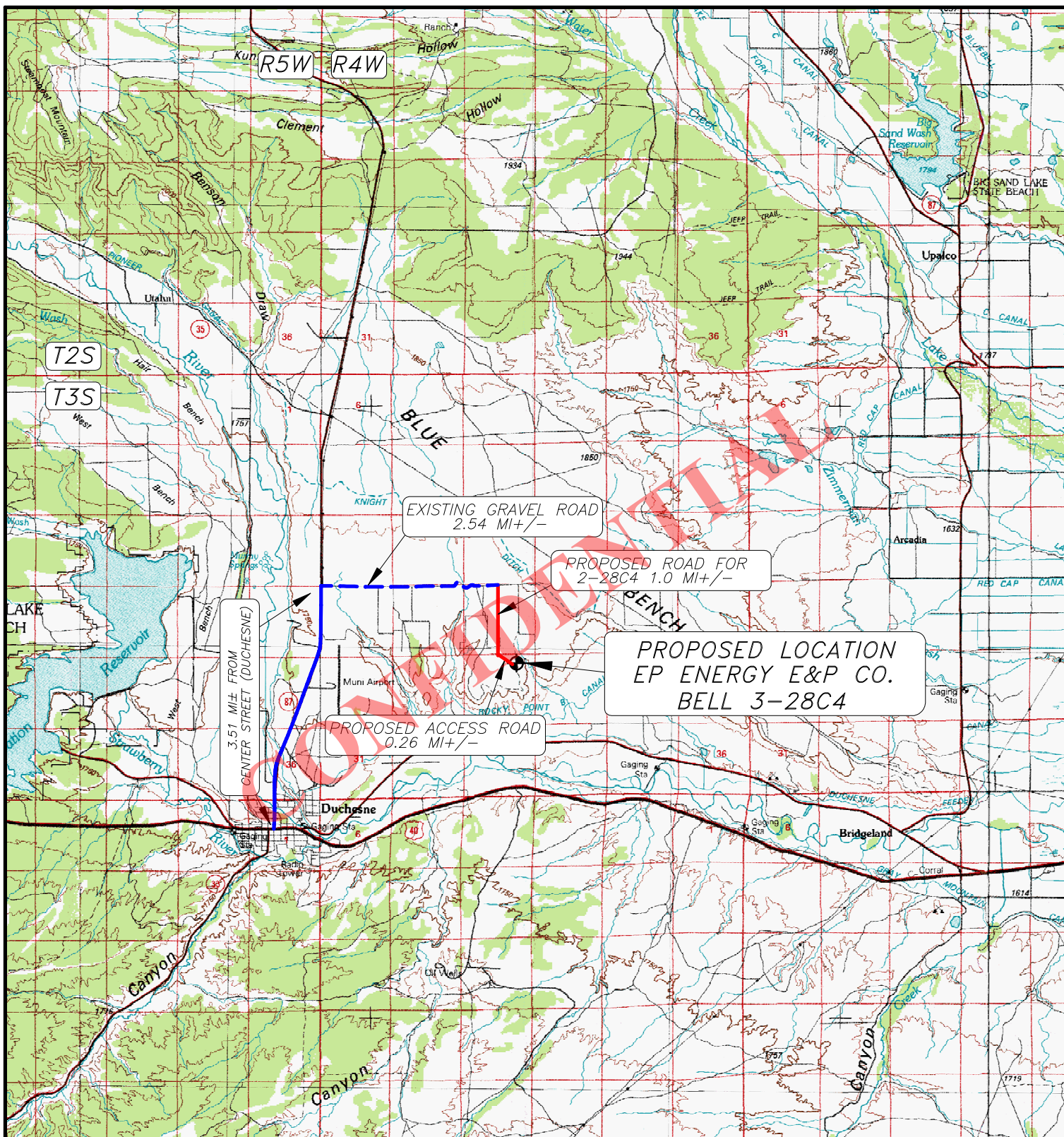
**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975  
DUCHESE, UTAH 84021  
(435) 738-5352

9 APR 2013

01-128-387

**RECEIVED: July 09, 2013**



## LEGEND:

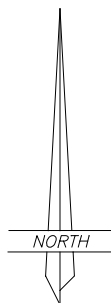


PROPOSED WELL LOCATION

01-128-387

**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975  
DUCHEсне, UTAH 84021  
(435) 738-5352



**EP ENERGY E & P COMPANY, L.P.**

BELL 3-28C4

SECTION 28, T3S, R4W, U.S.B.&M.

700' FNL 1359' FEL

**TOPOGRAPHIC MAP "A"**

SCALE: 1"=10,000'

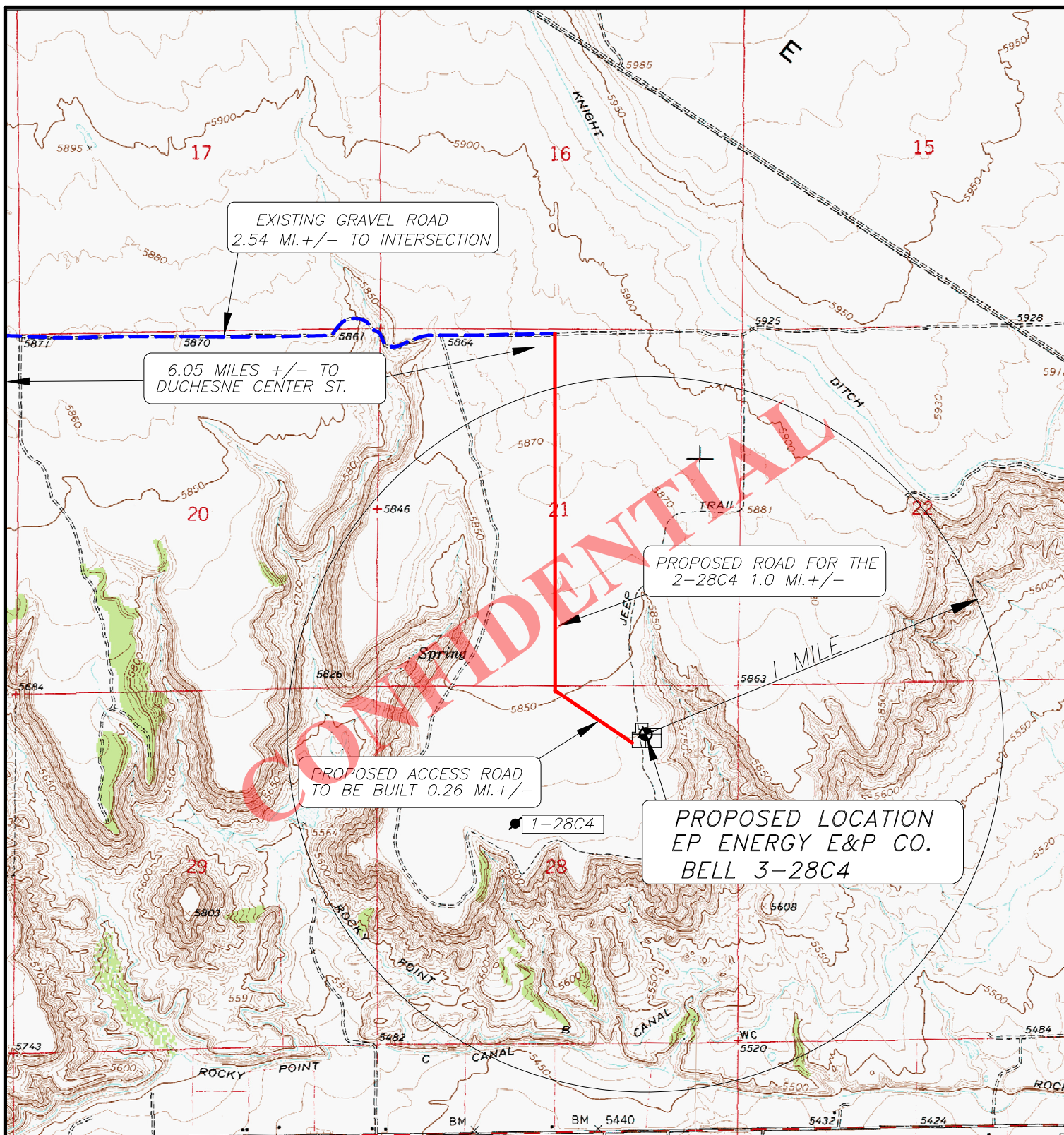
9 APR 2013

RECEIVED: July 09, 2013





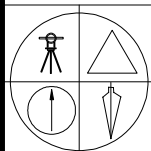




## LEGEND:

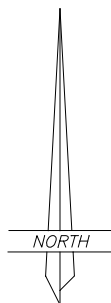
- PROPOSED WELL LOCATION
- PROPOSED ACCESS ROAD
- OTHER WELLS AS LOCATED FROM SUPPLIED MAP

01-128-387



**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975  
DUCHESNE, UTAH 84021  
(435) 738-5352



EP ENERGY E &amp; P COMPANY, L.P.

BELL 3-28C4

SECTION 28, T3S, R4W, U.S.B.&amp;M.

700' FNL 1359' FEL

TOPOGRAPHIC MAP "C"

SCALE: 1"=2000'

9 APR 2013

RECEIVED: July 09, 2013

**AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE**

Michael J. Walcher personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Michael J. Walcher. I am a Sr. Staff Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Bell 3-28C4 well (the "Well") to be located in the N/2 NE/4 of Section 28, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Judy A. Bell, whose address is 450 Hillside Drive #313 A, Mesquite, Nevada 89027 (the "Surface Owner"). The Surface Owner's telephone number is (801) 718-6060.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated June 8, 2013 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT.

  
Michael J. Walcher

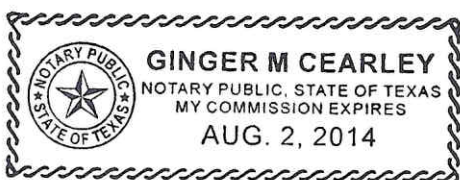
**ACKNOWLEDGMENT**

STATE OF TEXAS                   §  
   §  
CITY AND COUNTY OF HARRIS   §

Before me, a Notary Public, in and for this state, on this 20th day of June, 2013, personally appeared Michael J. Walcher, to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

  
NOTARY PUBLIC

My Commission Expires:





EP Energy E&P Company, L.P.

**Related Surface Information**

1. **Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .26 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**

- Drilling water: Duchesne City Water

5. **Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .26 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. **Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15<sup>th</sup>, and prior to ground frost, or seed will be planted after the frost has left and before May 15<sup>th</sup>. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
  1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
  2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
  3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
  1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
  2. Landowner will be contacted for rehabilitation requirements.

10. **Surface Ownership:**

Judy A. Bell  
450 Hillside Drive #313A  
Mesquite, Nevada 89027  
801-718-6060

**Other Information:**

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

**Construction and Reclamation:**

EP Energy E&P Company, L.P.  
Wayne Garner  
PO Box 410  
Altamont, Utah 84001  
435-454-3394 – Office  
435-823-1490 – Cell

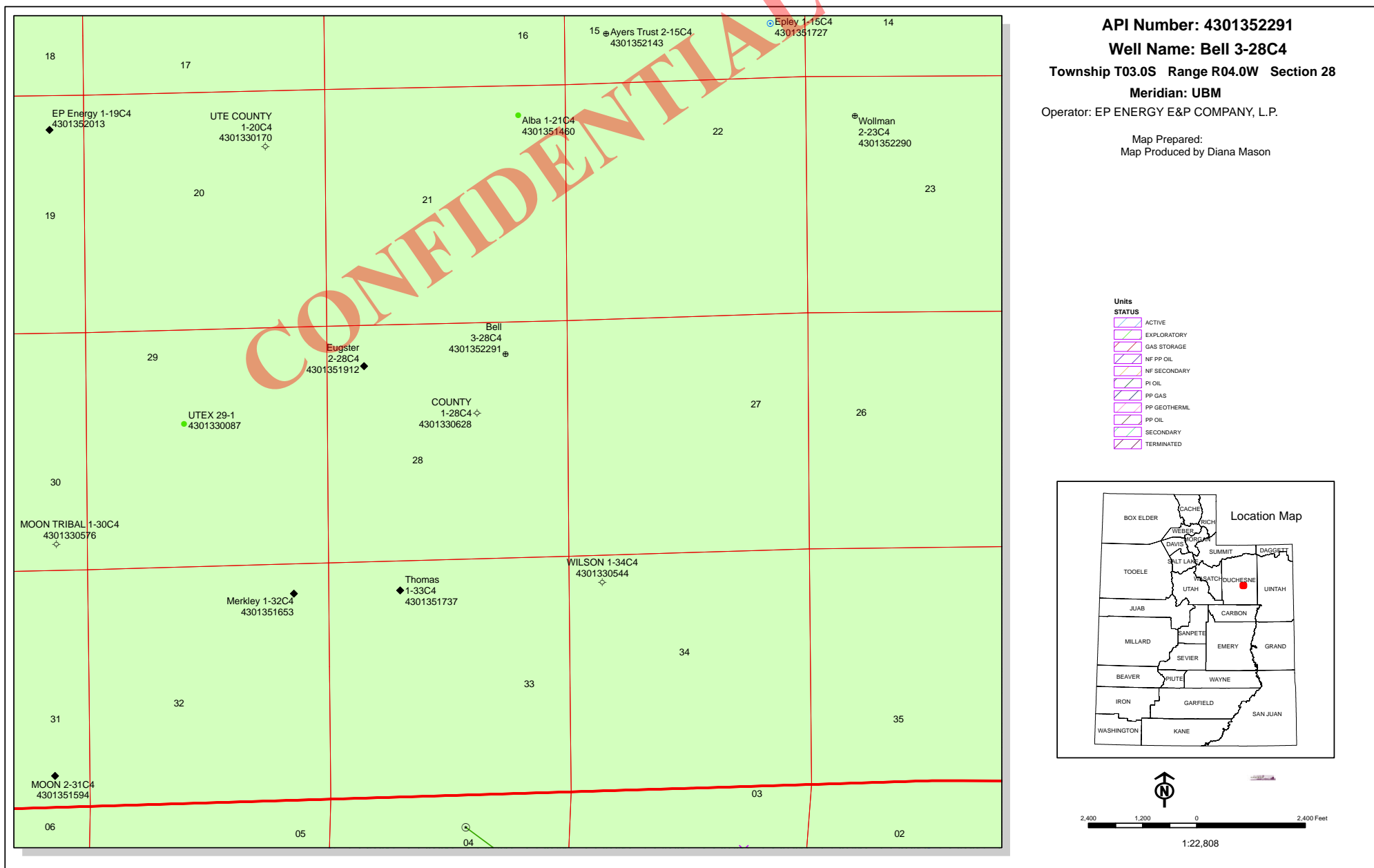
**Regarding This APD**

EP Energy E&P Company, L.P.  
Maria S. Gomez  
1001 Louisiana, Rm 2730D  
Houston, Texas 77002  
713-997-5038 – Office

**Drilling**

EP Energy E&P Company, L.P.  
Brad MacAfee – Drilling Engineer  
1001 Louisiana, Rm 2660D  
Houston, Texas 77002  
713-997-6383 – office  
281-813-0902 – Cell





Well Name	EP ENERGY E&P COMPANY, L.P. Bell 3-28C4 43013522910000			
String	Cond	Surf	I1	L1
Casing Size(in)	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	2500	8600	11500
Previous Shoe Setting Depth (TVD)	0	600	2500	8600
Max Mud Weight (ppg)	9.0	9.3	10.5	13.5
BOPE Proposed (psi)	1000	1000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	8073			13.5

Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	281	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	209	YES rotating head on structural pipe
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	149	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	149	NO OK
Required Casing/BOPE Test Pressure=		600	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

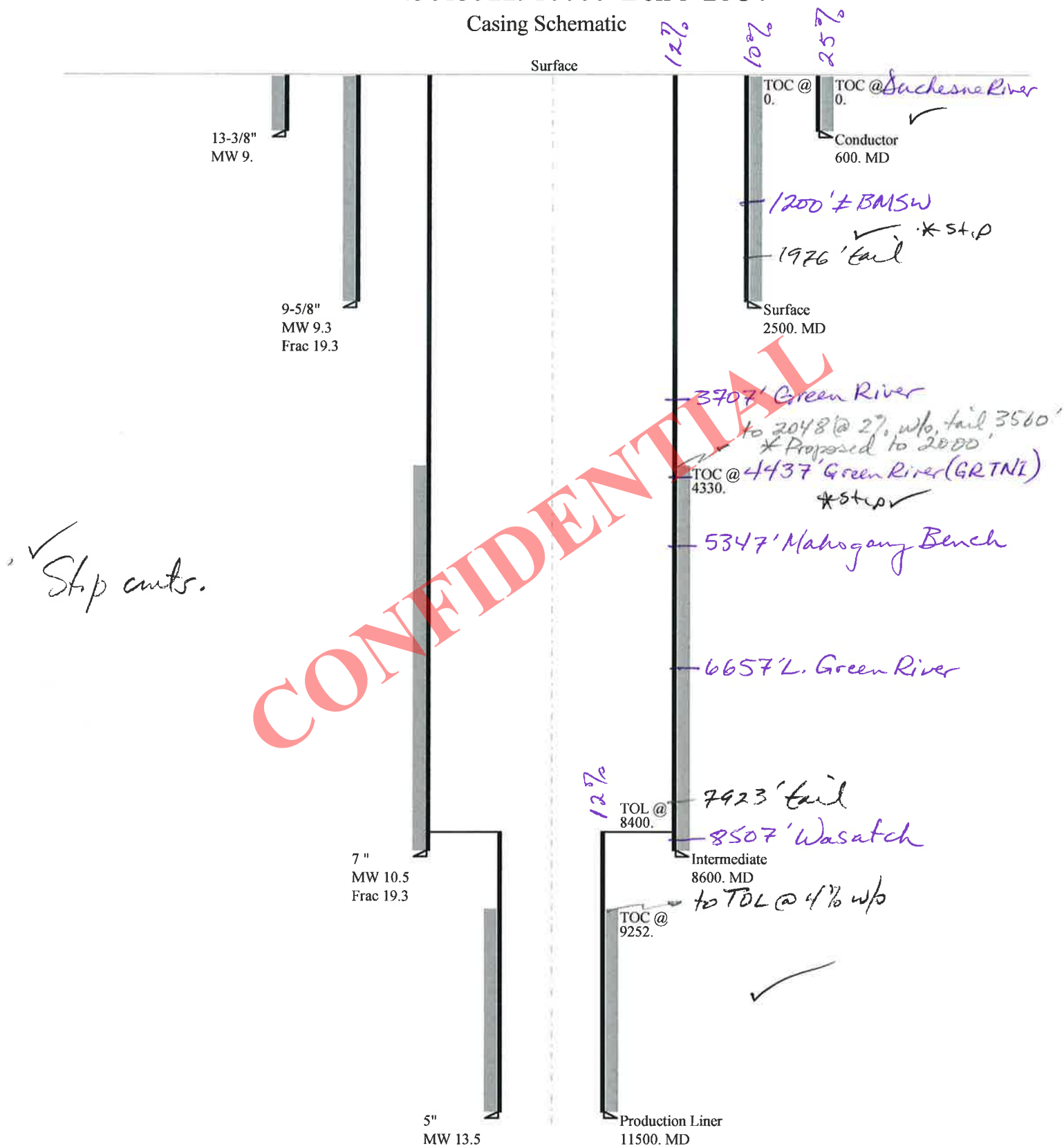
Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1209	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	909	YES Smith rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	659	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	791	NO OK
Required Casing/BOPE Test Pressure=		2500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		600	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4696	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3664	YES 5M BOPE, 5M kill lines & choke manifold
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2804	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3354	NO OK
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2500	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	8073	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	6693	YES 10M BOPE w/rotating head, 5M annular,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5543	YES blind rams & mud cross
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	7435	YES OK
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8600	psi *Assumes 1psi/ft frac gradient

# 43013522910000 Bell 3-28C4

## Casing Schematic



Well name:	<b>43013522910000 Bell 3-28C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Conductor	Project ID: 43-013-52291
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 9.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 82 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 208 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 280 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

**Non-directional string.**

Tension is based on air weight.  
Neutral point: 520 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	600	13.375	54.50	J-55	ST&C	600	600	12.49	7441
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	280	1130	4.030	280	2730	9.74	32.7	514	15.73 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: September 11, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 600 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013522910000 Bell 3-28C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Surface	Project ID: 43-013-52291
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 9.300 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 109 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 1,950 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 2,500 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 2,154 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 8,600 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 4,691 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,500 ft  
Injection pressure: 2,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2500	9.625	40.00	N-80	LT&C	2500	2500	8.75	31808
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1208	3090	2.559	2500	5750	2.30	100	737	7.37 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801-538-5357  
FAX: 801-359-3940

Date: September 11, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2500 ft, a mud weight of 9.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013522910000 Bell 3-28C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Intermediate	Project ID: 43-013-52291
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 10.500 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 194 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 4,330 ft

**Burst**

Max anticipated surface pressure: 5,535 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 7,427 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.  
Neutral point: 7,233 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 11,500 ft  
Next mud weight: 13.500 ppg  
Next setting BHP: 8,065 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 8,600 ft  
Injection pressure: 8,600 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8600	7	29.00	HCP-110	LT&C	8600	8600	6.059	97116
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4691	9200	1.961	7427	11220	1.51	249.4	797	3.20 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: September 11, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 8600 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013522910000 Bell 3-28C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Production Liner	Project ID: 43-013-52291
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 13.500 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 235 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 9,252 ft

**Burst**

Max anticipated surface pressure: 5,535 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 8,065 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.  
Neutral point: 10,863 ft

Liner top: 8,400 ft

**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3100	5	18.00	HCP-110	LT&C	11500	11500	4.151	22404
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	8065	13470	1.670	8065	13940	1.73	55.8	495	8.87 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: September 11, 2013  
Salt Lake City, Utah

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 11500 ft, a mud weight of 13.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** EP ENERGY E&P COMPANY, L.P.  
**Well Name** Bell 3-28C4  
**API Number** 43013522910000      **APD No** 8263      **Field/Unit** ALTAMONT  
**Location: 1/4,1/4 NWNE Sec 28 Tw 3.0S Rng 4.0W 700 FNL 1359 FEL**  
**GPS Coord (UTM)** 556450 4449848      **Surface Owner** Judy A Bell

### **Participants**

Heather Ivie (E&P Land Agency person); Wayne Garner (E&P Energy Representative); Dennis Ingram (Utah Division of Oil, Gas & Mining)

### **Regional/Local Setting & Topography**

The proposed Bell 3-28C4 is located in northeastern Utah, approximately 3.51 miles north of Duchesne on US Highway 87, then east on a county road another 2.54 miles where the new access road will lead south for 1.26 miles into well site. This project is located along the southern reached of Blue Bench, which is a nearly flat bench that slopes gently to the south toward the Duchesne River Drainage some four miles to the south. Blue Bench was utilized at one time as an alfalfa producing cropland and irrigated, but has since transformed into an arid, dry habitat with scattered sagebrush or weeds. Development to the south is mostly residential trailer house type community. The immediate area at the proposed well site is on a long, broad point overlooking the Duchesne River Drainage.

### **Surface Use Plan**

**Current Surface Use**  
Residential

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.26	<b>Width 342 Length 425</b>	Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

**Flora / Fauna**

**Soil Type and Characteristics**  
Fine-grained reddish blow sand

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required?** N



**Berm Required? Y****Erosion Sedimentation Control Required? N****Paleo Survey Run? N    Paleo Potential Observed? N    Cultural Survey Run? N    Cultural Resources? N****Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	High permeability	20
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>		0
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		25    1 Sensitivity Level

**Characteristics / Requirements**

Reserve pit proposed on the north side of location in cut, measuring 150' long by 110' wide by 12' deep.

**Closed Loop Mud Required?    Liner Required? Y    Liner Thickness 20    Pit Underlayment Required?**

**Other Observations / Comments**

No issues

Dennis Ingram  
Evaluator

8/20/2013  
Date / Time

# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
8263	43013522910000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Judy A Bell	
Well Name	Bell 3-28C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NWNE 28 3S 4W U 700 FNL 1359 FEL GPS Coord (UTM) 556449E 4449850N				

#### Geologic Statement of Basis

El Paso proposes to set 600 feet of conductor and 2,500 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,200 feet. A search of Division of Water Rights records indicates that there are 12 water wells within a 10,000 foot radius of the center of Section 28. These wells probably produce water from alluvium associated with the Duchesne River and the Duchesne River Formation. Depths of the wells fall in the range of 30-150 feet. Depth is not listed for 1 well. The wells are listed as being used for irrigation, stock watering and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill  
APD Evaluator

9/17/2013  
Date / Time

#### Surface Statement of Basis

A presite meeting was scheduled and done on August 13, 2013 to address issues regarding the construction and drilling of the Bell 3-28C4 well. Judy Bell was contacted by telephone and invited to the presite meeting but did not attend.

This surface is nearly flat but slopes southeast showing only three feet of fill along the southeastern corner; the deepest cut to the north shows 3.8 feet. The reserve pit is staked along the northern side of the location and shall be lined with a 16 mil synthetic liner to prevent migration of drilling fluids into sub-surface formations. The pit shall also be fenced to prevent livestock or wildlife from entering same. The location shall be bermed to prevent fluids from leaving well site.

Dennis Ingram  
Onsite Evaluator

8/20/2013  
Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the north side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/9/2013

API NO. ASSIGNED: 43013522910000

WELL NAME: Bell 3-28C4

OPERATOR: EP ENERGY E&amp;P COMPANY, L.P. (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NWNE 28 030S 040W

Permit Tech Review: ☒

SURFACE: 0700 FNL 1359 FEL

Engineering Review: ☒

BOTTOM: 0700 FNL 1359 FEL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.19715

LONGITUDE: -110.33678

UTM SURF EASTINGS: 556449.00

NORTHINGS: 4449850.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE/FEE - 400JU0708☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: Duchesne City☐ RDCC Review:☒ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 139-90

Effective Date: 5/9/2012

Siting: 4 Prod LGRRV-WSTC Wells

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill  
8 - Cement to Surface -- 2 strings - hmacdonald  
12 - Cement Volume (3) - hmacdonald  
13 - Cement Volume Formation (3a) - hmacdonald

RECEIVED: September 18, 2013



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** Bell 3-28C4

**API Well Number:** 43013522910000

**Lease Number:** Fee

**Surface Owner:** FEE (PRIVATE)

**Approval Date:** 9/18/2013

### Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2000' MD as indicated in the submitted drilling plan.

Cement volume for the 5" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to TOL in order to adequately isolate the Green River formation.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program  
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

**Approved By:**

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Bell 3-28C4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		9. API NUMBER: 43013522910000
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0700 FNL 1359 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 28 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>6/19/2014</b>	<input type="checkbox"/> ACIDIZE  <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Changes to approved APD. Surface casing depth from 2500' to 1300' and intermediate from 8600' to 8650'. Also changed mud weights. Please see attached for further details.

**Approved by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
 June 18, 2014

Date: \_\_\_\_\_

By: Derek Duff

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 6/18/2014

**Bell 3-28C4  
Sec. 28, T3S, R4W  
DUCHESNE COUNTY, UT**

**EP ENERGY E&P COMPANY, L.P.**

**DRILLING PROGRAM**

**1. Estimated Tops of Important Geologic Markers**

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,707' TVD
Green River (GRTN1)	4,437' TVD
Mahogany Bench	5,347' TVD
L. Green River	6,657' TVD
Wasatch	8,507' TVD
T.D. (Permit)	11,500' TVD

**2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,707' MD / TVD
	Green River (GRTN1)	4,437' MD / TVD
	Mahogany Bench	5,347' MD / TVD
Oil	L. Green River	6,657' MD / TVD
Oil	Wasatch	8,507' MD / TVD

**3. Pressure Control Equipment: (Schematic Attached)**

A 4.5" by 20.0" rotating head on structural pipe from surface to 600' MD/TVD. A 4.5" by 13-3/8" Diverter Stack w/ rotating head from 600' MD/TVD to 1,300' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 1,300' MD/TVD to 8,650' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 8,650' MD/TVD to TD (11,500' MD/TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

**OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:**

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing



will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from surface shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

**Statement on Accumulator System and Location of Hydraulic Controls:**

Precision Rig # 406 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

**Auxiliary Equipment:**

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 1,300' to TD (11,500' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

**4. Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

**5. Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	Air	
Intermediate	WBM	9.0 – 10.2
Production	WBM	10.5 – 12.0

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 1,300' MD/TVD – TD (11,500' MD/TVD)

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 11,500' TVD equals approximately 7,176 psi. This is calculated based on a 0.624 psi/ft gradient (12.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,646 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,650' TVD = 6,920 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 4,646 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**

MECHANICAL

RECEIVED: Jun. 18, 2014

**DRILLING PROGRAM**

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	1300	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	8650	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8450	11500	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead	800	EXTENDACEM SYSTEM: Type V Cement + 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 8% Bentonite + 0.3% D-AIR 5000	103	75%	11.0 ppg	3.18
	Tail	500	HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.3% D-AIR 5000	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	5,550	EXTENDACEM SYSTEM: Class G Cement + 10% Bentonite + 0.1% SA-1015 + 0.2% Econolite + 0.2% Halad-322 + 3 lbm/sk Silicalite Compacted + 1 lbm/sk Granulite TR 1/4 + 0.25 lbm/sk Poly-E-Flake + 5 lbm/sk Kol-Seal + 1% HR-5	394	10%	12.0 ppg	2.32
	Tail	2,300	EXPANDACEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.3% HR-5	238	10%	13.0 ppg	1.64
PRODUCTION LINER		3,050	EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL + 0.55% SCR-100 + 0.3% Halad-413 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SS-200 + 0.10% SA-1015	181	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 6,600'.
LINER	Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Brad MacAfee 713-997-6383

MANAGER: Bob Dodd

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

*NWNE 5-28 T03s R04W FFE LEASE*

**24hrs Notice Spud, Run & Cement Casing**

1 message

**LANDRIG009 (Precision 406)** <LANDRIG009@epenergy.com>

Tue, Jul 1, 2014 at 11:00 PM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>

RE: EP ENERGY

BELL 3-28C4

API # 43013522910000

ALTAMONT FIELD

DUCHESNE COUNTY

Leon Ross Drilling rig 35 spudded the well @ 20:00hrs on 7/1/2014. We plan on running and cementing 13-3/8" 54.5# J-55 STC Casing to +/- 600' within 24hrs.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NWNE 5-28 T03S R04 W FEE LEASE

**24hr Notice run & cement casing**

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Wed, Jul 2, 2014 at 4:04 PM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>

RE: EP ENERGY

BELL 3-28C4

API # 43013522910000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running and cementing 9-5/8" 40# N-80 LTC Casing to +/- 1,300' within 24hrs.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NW NE S-28 T03S R04W

**EP ENERGY / BELL 3-28C4 / RUN & CMT 7" INT CSG / TEST BOPE & CSG**

1 message

**PER LEASE**

**LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>**

Fri, Jul 18, 2014 at 6:59 AM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>

EP ENERGY

RUN & CMT 7" INT CSG / TEST BOPE & CSG

BELL 3-28C4

API # 43013522910000

ALTAMONT FIELD

DUCHESNE COUNTY

We reached TD (8650') of the 8 3/4" intermediate hole @ 10:00 PM 7-17-14. We will perform logging operations & will run 7" 29# HCP110 csg to TD @ 8650'. We anticipate starting cement operations @ 10:00 AM 7-20-14 & to start testing operations on BOPE & intermediate csg @ 8:00 PM 7-20-14. If any other information is required please contact us @ the numbers below.

Thanks,

Roy Darden / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

903-229-2878 (Cell)

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NWNE S-28 T039 R0401 FEE LEASE

**EP ENERGY / BELL 3-28C4 / RUN & CMT 5" PROD LINER**

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Tue, Jul 22, 2014 at 3:45 PM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>

**EP ENERGY / RUN & CMT 5" PROD LINER**

EP ENERGY

BELL 3-28C4

API # 43013522910000

ALTAMONT FIELD

DUCHESNE COUNTY

We reached TD on the 6 1/8" production hole @ 11100' @ 12:30 AM 07-22-14. We are currently preparing to run a 5" 18# HCP110 liner. We anticipate starting cement operations @ 3:00 PM 07-23-14. If any other information is required please contact us @ the numbers below.

Thanks,

Roy Derden / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

903-229-2878 (Cell)

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8  
(highlight changes)

<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>						5. LEASE DESIGNATION AND SERIAL NUMBER:					
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
						7. UNIT or CA AGREEMENT NAME					
						8. WELL NAME and NUMBER:					
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						9. API NUMBER:					
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						10 FIELD AND POOL, OR WILDCAT					
2. NAME OF OPERATOR:						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:					
3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____						PHONE NUMBER: _____		12. COUNTY		13. STATE UTAH	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE:  AT TOP PRODUCING INTERVAL REPORTED BELOW:  AT TOTAL DEPTH:						17. ELEVATIONS (DF, RKB, RT, GL):					
14. DATE SPUDDED:		15. DATE T.D. REACHED:		16. DATE COMPLETED: ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>		21. DEPTH BRIDGE MD PLUG SET: TVD					
18. TOTAL DEPTH: MD TVD		19. PLUG BACK T.D.: MD TVD		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		23. WAS WELL CORED? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit copy)					
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)											
24. CASING AND LINER RECORD (Report all strings set in well)											
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED		
25. TUBING RECORD											
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
26. PRODUCING INTERVALS					27. PERFORATION RECORD						
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS			
(A)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. See attached for further information on #27 & #28.											
DEPTH INTERVAL		AMOUNT AND TYPE OF MATERIAL									
29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor.								30. WELL STATUS:			
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS				<input type="checkbox"/> GEOLOGIC REPORT		<input type="checkbox"/> DST REPORT		<input type="checkbox"/> DIRECTIONAL SURVEY			
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> CORE ANALYSIS		<input type="checkbox"/> OTHER: _____					

**31. INITIAL PRODUCTION****INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL B (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)****33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

**35. ADDITIONAL REMARKS (Include plugging procedure)**

**36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.**

NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**Attachment to Well Completion Report****Form 8 Dated September 15, 2014****Well Name: Bell 3-28C4****Items #27 and #28 Continued****27. Perforation Record**

<b>Interval (Top/Bottom – MD)</b>	<b>Size</b>	<b>No. of Holes</b>	<b>Perf. Status</b>
<b>9331'-9604'</b>	<b>.43</b>	<b>69</b>	<b>Open</b>
<b>8990'-9303'</b>	<b>.43</b>	<b>69</b>	<b>Open</b>
<b>8686'-8957'</b>	<b>.43</b>	<b>69</b>	<b>Open</b>

**28. Acid, Fracture, Treatment, Cement Squeeze, Etc.**

<b>Depth Interval</b>	<b>Amount and Type of Material</b>
<b>9624'-9879'</b>	<b>5000 gal acid, 3000# 100 mesh, 160700# 30/50 TLC</b>
<b>9331'-9604'</b>	<b>5000 gal acid, 3000# 100 mesh, 160240# 30/50 TLC</b>
<b>8990'-9303'</b>	<b>5000 gal acid, 3000# 100 mesh, 150060# 30/50 TLC</b>
<b>8686'-8957'</b>	<b>5000 gal acid, 3000# 100 mesh, 159300# 30/50 TLC</b>



**Company:** EP Energy  
**Well:** Bell 3-28C4  
**Location:** Duchesne, UT  
**Rig:** Precision 406

**Job Number:** \_\_\_\_\_  
**Mag Decl.:** \_\_\_\_\_  
**Dir Driller:** \_\_\_\_\_  
**MWD Eng:** \_\_\_\_\_

**Calculation Method** Minimum Curvature  
**Proposed Azimuth** 0.00  
**Depth Reference** KB  
**Tie Into:** Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0.00	0.00	0.00												
1	100.00	0.22	139.02	100.00	100.00	-0.14	0.14	S	0.12	E	0.19	139.02	0.21	0.22	139.02
2	200.00	0.10	208.00	100.00	200.00	-0.36	0.36	S	0.21	E	0.41	150.25	0.20	-0.12	68.98
3	300.00	0.03	285.03	100.00	300.00	-0.43	0.43	S	0.14	E	0.45	161.60	0.10	-0.07	77.03
4	400.00	0.15	147.89	100.00	400.00	-0.53	0.53	S	0.19	E	0.56	160.46	0.17	0.12	-137.14
5	500.00	0.20	124.89	100.00	500.00	-0.74	0.74	S	0.40	E	0.84	151.72	0.08	0.05	-23.00
6	600.00	0.23	121.51	100.00	600.00	-0.94	0.94	S	0.71	E	1.18	142.97	0.04	0.04	-3.39
7	700.00	0.16	177.29	100.00	700.00	-1.18	1.18	S	0.89	E	1.48	143.08	0.19	-0.08	55.79
8	800.00	0.14	258.42	100.00	800.00	-1.35	1.35	S	0.78	E	1.56	149.94	0.19	-0.02	81.13
9	900.00	0.05	278.99	100.00	900.00	-1.36	1.36	S	0.62	E	1.50	155.71	0.09	-0.09	20.57
10	1000.00	0.13	219.61	100.00	1000.00	-1.44	1.44	S	0.50	E	1.53	160.96	0.11	0.08	-59.38
11	1100.00	0.25	191.15	100.00	1100.00	-1.74	1.74	S	0.38	E	1.78	167.53	0.15	0.12	-28.46
12	1200.00	0.28	165.13	100.00	1199.99	-2.18	2.18	S	0.41	E	2.22	169.48	0.12	0.03	-26.03
13	1230.00	0.19	94.20	30.00	1229.99	-2.25	2.25	S	0.47	E	2.30	168.13	0.93	-0.28	-236.43
14	1352.00	0.14	267.26	122.00	1351.99	-2.28	2.28	S	0.53	E	2.34	166.90	0.27	-0.04	141.86
15	1448.00	0.18	232.22	96.00	1447.99	-2.38	2.38	S	0.29	E	2.39	172.95	0.11	0.04	-36.50
16	1544.00	1.65	32.76	96.00	1543.98	-1.31	1.31	S	0.92	E	1.60	144.75	1.90	1.53	-207.77
17	1641.00	1.02	23.12	97.00	1640.96	0.66	0.66	N	2.02	E	2.12	71.80	0.69	-0.65	-9.94
18	1737.00	0.87	19.51	96.00	1736.94	2.14	2.14	N	2.60	E	3.36	50.55	0.17	-0.16	-3.76
19	1833.00	0.70	350.13	96.00	1832.93	3.40	3.40	N	2.74	E	4.37	38.85	0.45	-0.18	344.40
20	1930.00	0.23	349.11	97.00	1929.93	4.18	4.18	N	2.60	E	4.92	31.91	0.48	-0.48	-1.05
21	2026.00	1.63	56.35	96.00	2025.92	5.12	5.12	N	3.70	E	6.32	35.85	1.62	1.46	-304.96
22	2122.00	1.69	57.65	96.00	2121.88	6.64	6.64	N	6.03	E	8.97	42.28	0.07	0.06	1.35
23	2218.00	1.59	60.26	96.00	2217.84	8.05	8.05	N	8.39	E	11.63	46.16	0.13	-0.10	2.72
24	2314.00	0.89	62.72	96.00	2313.81	9.06	9.06	N	10.20	E	13.64	48.41	0.73	-0.73	2.56
25	2411.00	0.63	64.30	97.00	2410.80	9.63	9.63	N	11.35	E	14.89	49.69	0.27	-0.27	1.63
26	2506.00	0.62	70.65	95.00	2505.80	10.03	10.03	N	12.31	E	15.88	50.83	0.07	-0.01	6.68
27	2603.00	0.45	60.13	97.00	2602.79	10.39	10.39	N	13.14	E	16.75	51.65	0.20	-0.18	-10.85
28	2699.00	1.98	12.33	96.00	2698.77	12.20	12.20	N	13.82	E	18.43	48.55	1.78	1.59	-49.79
29	2795.00	1.94	15.25	96.00	2794.72	15.39	15.39	N	14.60	E	21.21	43.49	0.11	-0.04	3.04
30	2892.00	1.56	9.28	97.00	2891.67	18.28	18.28	N	15.24	E	23.80	39.83	0.43	-0.39	-6.15
31	2988.00	1.52	12.83	96.00	2987.64	20.81	20.81	N	15.74	E	26.09	37.10	0.11	-0.04	3.70
32	3085.00	1.21	11.10	97.00	3084.61	23.07	23.07	N	16.22	E	28.20	35.11	0.32	-0.32	-1.78
33	3181.00	0.75	9.44	96.00	3180.59	24.68	24.68	N	16.52	E	29.70	33.79	0.48	-0.48	-1.73
34	3277.00	0.65	328.40	96.00	3276.59	25.76	25.76	N	16.34	E	30.51	32.38	0.52	-0.10	332.25
35	3373.00	0.43	340.41	96.00	3372.58	26.57	26.57	N	15.93	E	30.98	30.95	0.26	-0.23	12.51



**Company:** EP Energy  
**Well:** Bell 3-28C4  
**Location:** Duchesne, UT  
**Rig:** Precision 406

**Job Number:** \_\_\_\_\_  
**Mag Decl.:** \_\_\_\_\_  
**Dir Driller:** \_\_\_\_\_  
**MWD Eng:** \_\_\_\_\_

**Calculation Method** Minimum Curvature  
**Proposed Azimuth** 0.00  
**Depth Reference** KB  
**Tie Into:** Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates				Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)		E/W (ft)		Distance (ft)	Direction Azimuth			
36	3469.00	0.47	249.80	96.00	3468.58	26.77	26.77	N	15.44	E	30.90	29.97	0.67	0.04	-94.39
37	3565.00	0.44	220.08	96.00	3564.58	26.35	26.35	N	14.83	E	30.24	29.37	0.24	-0.03	-30.96
38	3661.00	0.75	199.75	96.00	3660.57	25.48	25.48	N	14.38	E	29.26	29.44	0.39	0.32	-21.18
39	3757.00	0.96	202.89	96.00	3756.56	24.15	24.15	N	13.86	E	27.84	29.85	0.22	0.22	3.27
40	3854.00	1.25	197.39	97.00	3853.54	22.39	22.39	N	13.23	E	26.00	30.57	0.32	0.30	-5.67
41	3950.00	1.43	196.90	96.00	3949.52	20.24	20.24	N	12.56	E	23.83	31.82	0.19	0.19	-0.51
42	4046.00	1.02	326.22	96.00	4045.51	19.81	19.81	N	11.74	E	23.03	30.66	2.31	-0.43	134.71
43	4142.00	0.63	294.66	96.00	4141.50	20.74	20.74	N	10.79	E	23.38	27.48	0.61	-0.41	-32.88
44	4238.00	0.68	235.68	96.00	4237.49	20.64	20.64	N	9.84	E	22.86	25.48	0.67	0.05	-61.44
45	4334.00	1.03	215.65	96.00	4333.48	19.62	19.62	N	8.86	E	21.52	24.31	0.47	0.36	-20.86
46	4430.00	1.24	208.83	96.00	4429.46	18.00	18.00	N	7.86	E	19.64	23.58	0.26	0.22	-7.10
47	4527.00	0.79	20.55	97.00	4526.46	17.71	17.71	N	7.59	E	19.27	23.19	2.09	-0.46	-194.10
48	4622.00	3.04	23.09	95.00	4621.40	20.64	20.64	N	8.81	E	22.44	23.10	2.37	2.37	2.67
49	4718.00	1.96	22.99	96.00	4717.30	24.49	24.49	N	10.44	E	26.63	23.09	1.13	-1.13	-0.10
50	4814.00	1.38	28.40	96.00	4813.26	27.02	27.02	N	11.64	E	29.42	23.30	0.63	-0.60	5.64
51	4909.00	1.07	21.79	95.00	4908.24	28.85	28.85	N	12.51	E	31.45	23.44	0.36	-0.33	-6.96
52	5005.00	0.52	37.06	96.00	5004.23	30.03	30.03	N	13.10	E	32.77	23.57	0.61	-0.57	15.91
53	5101.00	0.50	150.43	96.00	5100.23	30.02	30.02	N	13.57	E	32.94	24.33	0.89	-0.02	118.09
54	5198.00	0.84	170.04	97.00	5197.22	28.95	28.95	N	13.91	E	32.11	25.66	0.42	0.35	20.22
55	5293.00	1.16	174.81	95.00	5292.21	27.30	27.30	N	14.11	E	30.74	27.33	0.35	0.34	5.02
56	5388.00	1.38	171.97	95.00	5387.19	25.21	25.21	N	14.36	E	29.02	29.66	0.24	0.23	-2.99
57	5485.00	1.60	178.45	97.00	5484.15	22.70	22.70	N	14.56	E	26.97	32.67	0.29	0.23	6.68
58	5581.00	1.68	180.46	96.00	5580.11	19.96	19.96	N	14.58	E	24.72	36.16	0.10	0.08	2.09
59	5677.00	1.79	186.06	96.00	5676.07	17.06	17.06	N	14.41	E	22.33	40.20	0.21	0.11	5.83
60	5774.00	2.03	193.62	97.00	5773.02	13.88	13.88	N	13.85	E	19.61	44.93	0.36	0.25	7.79
61	5870.00	2.25	189.12	96.00	5868.95	10.37	10.37	N	13.15	E	16.75	51.75	0.29	0.23	-4.69
62	5967.00	2.28	188.88	97.00	5965.87	6.58	6.58	N	12.55	E	14.17	62.33	0.03	0.03	-0.25
63	6063.00	0.88	257.87	96.00	6061.84	4.54	4.54	N	11.54	E	12.40	68.51	2.22	-1.46	71.86
64	6158.00	1.27	262.56	95.00	6156.82	4.25	4.25	N	9.78	E	10.66	66.50	0.42	0.41	4.94
65	6255.00	1.44	238.52	97.00	6253.80	3.48	3.48	N	7.67	E	8.42	65.63	0.61	0.18	-24.78
66	6351.00	1.63	229.15	96.00	6349.76	1.95	1.95	N	5.61	E	5.94	70.82	0.33	0.20	-9.76
67	6447.00	1.86	215.23	96.00	6445.72	-0.21	0.21	S	3.68	E	3.69	93.31	0.50	0.24	-14.50
68	6544.00	2.22	212.22	97.00	6542.66	-3.09	3.09	S	1.77	E	3.56	150.17	0.39	0.37	-3.10
69	6640.00	2.08	202.06	96.00	6638.59	-6.28	6.28	S	0.13	E	6.28	178.86	0.42	-0.15	-10.58
70	6736.00	2.21	198.55	96.00	6734.52	-9.65	9.65	S	1.12	W	9.71	186.61	0.19	0.14	-3.66
71	6833.00	2.41	206.40	97.00	6831.44	-13.25	13.25	S	2.62	W	13.50	191.19	0.39	0.21	8.09
72	6929.00	2.63	202.40	96.00	6927.35	-17.09	17.09	S	4.36	W	17.64	194.30	0.29	0.23	-4.17



**Company:** EP Energy  
**Well:** Bell 3-28C4  
**Location:** Duchesne, UT  
**Rig:** Precision 406

**Job Number:**  
**Mag Decl.:**  
**Dir Driller:**  
**MWD Eng:**

**Calculation Method** Minimum Curvature  
**Proposed Azimuth** 0.00  
**Depth Reference** KB  
**Tie Into:** Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates				Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)		E/W (ft)		Distance (ft)	Direction Azimuth			
73	7025.00	1.76	199.42	96.00	7023.28	-20.52	20.52	S	5.69	W	21.29	195.49	0.91	-0.91	-3.10
74	7121.00	1.80	249.45	96.00	7119.24	-22.44	22.44	S	7.59	W	23.68	198.69	1.57	0.04	52.11
75	7217.00	1.99	233.91	96.00	7215.19	-23.95	23.95	S	10.35	W	26.09	203.37	0.57	0.20	-16.19
76	7313.00	2.07	222.46	96.00	7311.13	-26.21	26.21	S	12.86	W	29.20	206.14	0.43	0.08	-11.93
77	7410.00	2.43	209.93	97.00	7408.05	-29.28	29.28	S	15.07	W	32.93	207.24	0.63	0.37	-12.92
78	7506.00	2.68	203.83	96.00	7503.96	-33.10	33.10	S	17.00	W	37.21	207.18	0.38	0.26	-6.35
79	7602.00	2.87	195.84	96.00	7599.84	-37.46	37.46	S	18.56	W	41.81	206.35	0.45	0.20	-8.32
80	7699.00	2.50	186.05	97.00	7696.74	-41.90	41.90	S	19.44	W	46.20	204.89	0.61	-0.38	-10.09
81	7795.00	2.84	181.43	96.00	7792.63	-46.36	46.36	S	19.72	W	50.39	203.05	0.42	0.35	-4.81
82	7891.00	2.54	211.10	96.00	7888.53	-50.56	50.56	S	20.88	W	54.71	202.44	1.47	-0.31	30.91
83	7988.00	3.00	176.40	97.00	7985.43	-54.94	54.94	S	21.83	W	59.12	201.67	1.76	0.47	-35.77
84	8084.00	2.75	165.90	96.00	8081.31	-59.68	59.68	S	21.11	W	63.30	199.48	0.61	-0.26	-10.94
85	8180.00	2.12	170.15	96.00	8177.22	-63.66	63.66	S	20.25	W	66.80	197.64	0.68	-0.66	4.43
86	8275.00	3.42	192.58	95.00	8272.11	-68.16	68.16	S	20.57	W	71.19	196.79	1.76	1.37	23.61
87	8371.00	3.25	206.18	96.00	8367.95	-73.40	73.40	S	22.39	W	76.73	196.97	0.84	-0.18	14.17
88	8467.00	1.51	211.86	96.00	8463.86	-76.91	76.91	S	24.26	W	80.65	197.51	1.83	-1.81	5.92
89	8563.00	1.27	182.44	96.00	8559.83	-79.05	79.05	S	24.97	W	82.90	197.53	0.77	-0.25	-30.65
90	8600.00	1.26	187.70	37.00	8596.82	-79.86	79.86	S	25.04	W	83.70	197.41	0.31	-0.03	14.21
91	8700.00	1.96	169.33	100.00	8696.79	-82.63	82.63	S	24.87	W	86.29	196.75	0.86	0.70	-18.37
92	8800.00	2.49	169.04	100.00	8796.71	-86.44	86.44	S	24.15	W	89.75	195.61	0.53	0.53	-0.29
93	8900.00	2.63	181.74	100.00	8896.61	-90.87	90.87	S	23.80	W	93.93	194.68	0.58	0.15	12.70
94	9000.00	2.78	180.78	100.00	8996.50	-95.58	95.58	S	23.90	W	98.53	194.04	0.15	0.14	-0.97
95	9100.00	2.71	174.89	100.00	9096.38	-100.36	100.36	S	23.73	W	103.13	193.30	0.29	-0.06	-5.89
96	9200.00	2.77	177.83	100.00	9196.27	-105.13	105.13	S	23.42	W	107.71	192.56	0.15	0.06	2.94
97	9300.00	2.41	187.78	100.00	9296.17	-109.63	109.63	S	23.62	W	112.14	192.16	0.58	-0.36	9.95
98	9400.00	2.69	189.06	100.00	9396.07	-114.02	114.02	S	24.27	W	116.57	192.02	0.28	0.28	1.28
99	9500.00	2.88	191.91	100.00	9495.95	-118.79	118.79	S	25.16	W	121.43	191.96	0.24	0.20	2.85
100	9600.00	2.91	190.47	100.00	9595.82	-123.75	123.75	S	26.14	W	126.48	191.93	0.08	0.03	-1.45
101	9700.00	3.19	190.94	100.00	9695.68	-128.98	128.98	S	27.13	W	131.80	191.88	0.28	0.28	0.47
102	9800.00	2.90	188.91	100.00	9795.54	-134.21	134.21	S	28.05	W	137.11	191.80	0.31	-0.29	-2.03
103	9900.00	2.96	192.84	100.00	9895.41	-139.22	139.22	S	29.01	W	142.21	191.77	0.21	0.06	3.92
104	10000.00	3.14	186.85	100.00	9995.27	-144.45	144.45	S	29.91	W	147.52	191.70	0.37	0.19	-5.99
105	10100.00	3.09	193.83	100.00	10095.12	-149.79	149.79	S	30.88	W	152.94	191.65	0.38	-0.05	6.98
106	10200.00	3.20	183.90	100.00	10194.97	-155.18	155.18	S	31.71	W	158.39	191.55	0.55	0.11	-9.93
107	10300.00	3.19	191.57	100.00	10294.82	-160.70	160.70	S	32.46	W	163.94	191.42	0.43	0.00	7.67
108	10400.00	2.95	191.63	100.00	10394.67	-165.95	165.95	S	33.54	W	169.30	191.43	0.24	-0.24	0.06
109	10500.00	3.04	189.63	100.00	10494.54	-171.09	171.09	S	34.51	W	174.54	191.40	0.14	0.09	-2.00



**Company:** EP Energy  
**Well:** Bell 3-28C4  
**Location:** Duchesne, UT  
**Rig:** Precision 406

**Job Number:** \_\_\_\_\_  
**Mag Decl.:** \_\_\_\_\_  
**Dir Driller:** \_\_\_\_\_  
**MWD Eng:** \_\_\_\_\_

**Calculation Method** Minimum Curvature  
**Proposed Azimuth** 0.00  
**Depth Reference** KB  
**Tie Into:** Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates				Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)		E/W (ft)		Distance (ft)	Direction Azimuth			
110	10600.00	2.80	188.07	100.00	10594.41	-176.12	176.12	S	35.29	W	179.63	191.33	0.26	-0.25	-1.56
111	10700.00	3.44	185.17	100.00	10694.26	-181.52	181.52	S	35.90	W	185.04	191.19	0.66	0.64	-2.90
112	10800.00	3.16	191.93	100.00	10794.09	-187.20	187.20	S	36.74	W	190.78	191.10	0.48	-0.28	6.75
113	10900.00	3.07	190.71	100.00	10893.94	-192.53	192.53	S	37.81	W	196.21	191.11	0.11	-0.09	-1.21
114	10955.00	3.10	191.21	55.00	10948.87	-195.44	195.44	S	38.37	W	199.17	191.11	0.08	0.06	0.91
115	11100.00	3.10	191.21	145.00	11093.65	-203.14	203.14	S	39.90	W	207.02	191.11	0.00	0.00	0.00

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EP ENERGY E&P COMPANY, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana, Houston, TX, 77002		<b>8. WELL NAME and NUMBER:</b> Bell 3-28C4
<b>PHONE NUMBER:</b> 713 997-5138 Ext		<b>9. API NUMBER:</b> 43013522910000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0700 FNL 1359 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 28 Township: 03.0S Range: 04.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>12/1/2016</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please find attached the proposed recompletion procedure along with current and post WBD's.

**Approved by the**  
**October 25, 2016**  
**Oil, Gas and Mining**

Date: \_\_\_\_\_

By: Derek Duff

<b>NAME (PLEASE PRINT)</b> Linda Renken	<b>PHONE NUMBER</b> 713 997-5138	<b>TITLE</b> Sr. Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/19/2016	



## *Bell 3-28 C4 - Recom Summary Procedure*

- POOH with co-rod, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set 15k CBP for 5" 18# casing @ 8,675' w/ 15' cement dump bailed on plug. Test casing to frac pressure.
- Stage 1:
  - Perforate new CP 70 interval from **8,493' - 8,660'**.
  - Prop Frac perforations with **75,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **6,000** gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
  - RIH with 7" CBP & set @ **8,413'**.
  - Perforate new LGR interval from **8,202' - 8,398'**.
  - Acid Frac Perforations with **20,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
  - RIH with 7" CBP & set @ **8,167'**.
  - Perforate new LGR interval from **7,880 - 8,152'**.
  - Acid Frac Perforations with **23,000** gals 15% HCl acid (Stage 3 Recom).
- Stage 4:
  - RIH with 7" CBP & set @ **7,659'**.
  - Perforate new LGR interval from **7,496' - 7,644'**.
  - Prop Frac perforations with **83,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **6,000** gals 15% HCl acid) (Stage 4 Recom).
- Stage 5:
  - RIH with 7" CBP & set @ **7,435'**.
  - Perforate new LGR interval from **7,309' - 7,420'**.
  - Acid Frac Perforations with **11,000** gals 15% HCl acid (Stage 5 Recom).
- Clean out well drilling up (4) 7" CBPs at 7,435', 7,659', 8,167' and 8,413', leaving cement and 5" 15k CBP @ 8,675' w/ 15' CMT. Top perf BELOW plugs @ 8,686'.
- RIH w/ production tubing and rods.
- Clean location and resume production.



### Proposed Pumping Wellbore Schematic

Well Name: **Bell 3-28C4**  
 Company Name: **EP Energy**  
 Field, County, State: **Altamont, Duchesne, UT**  
 Surface Location: **Lat: 40 11' 49.741" N Long: 110 20' 12.322" W**  
 Producing Zone(s): **Wasatach**

Last Updated: **10/1/2014**  
 By: **Tomova**  
 TD: **11,052**  
 API: **4301352291**  
 AFE: **0**

8.43 ppg KCL substitute (Clay Webb Water)  
 w/ Algacide in the wellbore

*~258 Jts 2-7/8" 6.5# N-80 8rd Tubing*

**Rod Detail @ 4.3 SPM**  
**1-1/2" x 40' Polished Rod**  
**870' - 17/16" CoRod**  
**1,030' - 16/16" CoRod**  
**5,250' - 15/16" CoRod**  
**1,150' - 17/16" CoRod**  
**2-1/2" x 1-3/4" x 38' 2 stg HVR Insert Pump**

**13-3/8" 54.5# J-55 STC @ 637 ft. MD**

Estimated TOC at: 2,410 ft MD (CBL)

**9-5/8" 40# N-80 LTC @ 1317 ft. MD**

**Tubing Anchor @ ~8,171'**  
**4 jts 2-7/8" 6.5# N-80 8rd Tubing**  
**Seating Nipple @ ~8,310'**  
**2' x 2 7/8" Tubing Sub**  
**5 1/2" x 33' PBGA**  
**2 jt 2-7/8" Mud Anchor**  
**Bull Plug/No-Go Nipple**  
**EOT @ ~8,410'**

Top of Liner at: 8,463 ft MD (CBL)

**7" 29# HCP-110 LTC @ 8640 ft. MD**  
 Drift ID = 6.059"

Liner TOC at: 8,486 ft MD (CBL)

#### Initial Completion Perf Information

**Stage #7 8686 - 8957 23' /69 shots**  
 5000 gal HCL & 160000 lbs TLC 30/50  
**Stage #6 8990 - 9303 23' /69 shots**  
 5000 gal HCL & 150000 lbs TLC 30/50  
**Stage #5 9331 - 9604 23' /69 shots**  
 5000 gal HCL & 160000 lbs TLC 30/50  
**Stage #4 9624 - 9879 23' /69 shots**  
 5000 gal HCL & 160000 lbs TLC 30/50  
**Stage #3 9895 - 10171 22' /66 shots**  
 5000 gal HCL & 140000 lbs TLC 30/50  
**Stage #2 10217 - 10570 23' /69 shots**  
 5000 gal HCL & 140000 lbs TLC 30/50  
**Stage #1 10653 - 10946 22' /66 shots**  
 5000 gal HCL & 140000 lbs TLC 30/50

Marker Joint 1 @: 9,064 ft MD (CBL)

Marker Joint 2 @: 10,068 ft MD (CBL)

Landing Collar @ 10,946 ft

Float Collar @ 11,009 ft

Float Shoe @ 11,052 ft

PBTD - 11,010'

**5" 18# HCP-110 STL @ 8463 - 11096 ft. MD**  
 Drift ID = 4.151"



### Proposed Recompletion Schematic

Well Name: **Bell 3-28C4**  
 Company Name: **EP Energy**  
 Field, County, State: **Altamont, Duchesne, UT**  
 Surface Location: **Lat: 40 11' 49.741" N Long: 110 20' 12.322" W**  
 Producing Zone(s): **LGR, CP 70, Wasatch**

Last Updated: **10/17/2016**  
 By: **Fondren**  
 TD: **11,052**  
 API: **4301352291**  
 AFE:

2016 Recompletion
STG 5: 7,309' - 7,420' (17/51 holes) 11,000 gals HCl
STG 4: 7,496' - 7,644' (21/66 holes) 6,000 gals HCl + 6,000# 100M + 83,000# 30/50
STG 3: 7,880' - 8,152' (23/69 holes) 23,000 gals HCl
STG 2: 8,202' - 8,398' (23/69 holes) 20,000 gals HCl
STG 1: 8,493' - 8,660' (23/69 holes) 6,000 gals HCl + 6,000# 100M + 75,000# 30/50

### Initial Completion Perf Information

**Stage #7** 8686 - 8957 23' /69 shots  
5000 gal HCL & 160000 lbs TLC 30/50

**Stage #6** 8990 - 9303 23' /69 shots  
5000 gal HCL & 150000 lbs TLC 30/50

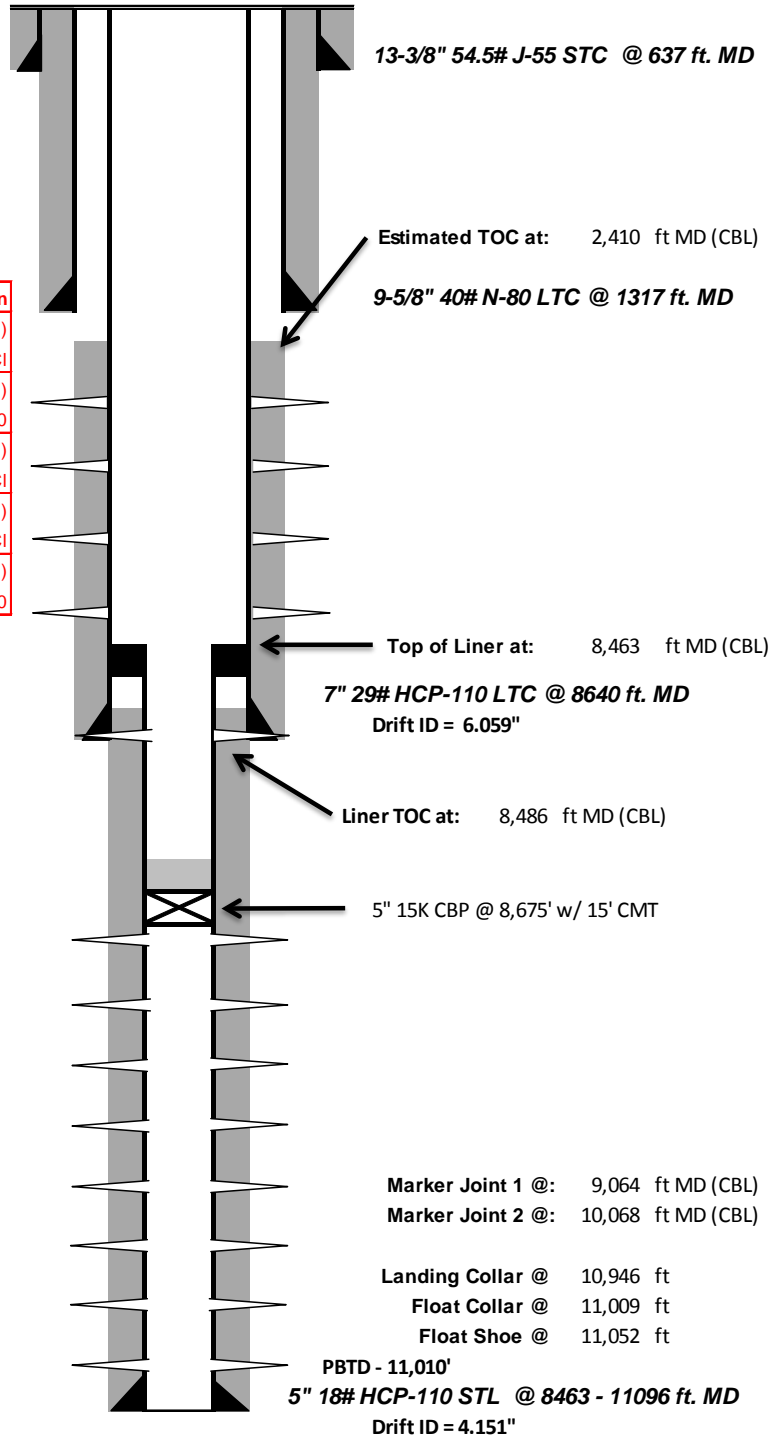
**Stage #5** 9331 - 9604 23' /69 shots  
5000 gal HCL & 160000 lbs TLC 30/50

**Stage #4** 9624 - 9879 23' /69 shots  
5000 gal HCL & 160000 lbs TLC 30/50

**Stage #3** 9895 - 10171 22' /66 shots  
5000 gal HCL & 140000 lbs TLC 30/50

**Stage #2** 10217 - 10570 23' /69 shots  
5000 gal HCL & 140000 lbs TLC 30/50

**Stage #1** 10653 - 10946 22' /66 shots  
5000 gal HCL & 140000 lbs TLC 30/50



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,  
MERIDIAN:

12. COUNTY

13. STATE

UTAH

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER \_\_\_\_\_b. TYPE OF WORK:  
NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR:

CITY

STATE

ZIP

PHONE NUMBER:

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

14. DATE SPUDDED:

15. DATE T.D. REACHED:

16. DATE COMPLETED:

ABANDONED ☐READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL):

18. TOTAL DEPTH: MD  
TVD19. PLUG BACK T.D.: MD  
TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23.

WAS WELL CORED? NO ☐ YES ☐ (Submit analysis)WAS DST RUN? NO ☐ YES ☐ (Submit report)DIRECTIONAL SURVEY? NO ☐ YES ☐ (Submit copy)

## 24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

## 25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

## 26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

## 27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

## 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

WAS WELL HYDRAULICALLY FRACTURED? YES ☐ NO ☐ IF YES -- DATE FRACTURED: \_\_\_\_\_

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

## 29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: \_\_\_\_\_

## 30. WELL STATUS:

**31. INITIAL PRODUCTION****INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL B (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)****33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

**35. ADDITIONAL REMARKS (Include plugging procedure)**

**36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.**

NAME (PLEASE PRINT) \_\_\_\_\_ TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**Attachment to Well Completion Report**

**Date:** \_

**Well Name:** \_

**Items #27 and #28 Continued**

**27. Perforation Record**

Interval (Top/Bottom–MD)	Hole Size	No. of Holes	Perf. Status

**28. Acid, Fracture, Treatment, Cement Squeeze, Etc.**

Depth Interval	Amount and Type of Material

## 1 General

### 1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

### 1.2 Well Information

Well	BELL 3-28C4		
Project	ALTAMONT FIELD	Site	BELL 3-28C4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	11/30/2016	End date	
Spud Date/Time	7/14/2014	UWI	BELL 3-28C4
Active datum	KB @5,857.4ft (above Mean Sea Level)		
Afe No./Description	167407/57525 / BELL 3-28C4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
12/2/2016	6:00	14:00	8.00	WOR	28		P		WAIT ON CO ROD RIG. HELD SAFETY MEETING RIGGING UP RIG. FILLED OUT AND REVIEWED JSA.
	14:00	15:00	1.00	MIRU	01		P		MIRU CO-ROD RIG WHILE PUMPING 80 BBLS DOWN CSG.
	15:00	18:00	3.00	WOR	18		P		ATTEMPT TO UNSEAT PUMP WHILE PUMPING 100 BBLS DOWN CSG.UNABLE TO UNSEAT PUMP RELEASED FROM ON-OFF TOOL. SDFN. CLOSED FLOWLINE AND INSTALLED NIGHT CAPS. SDFN.
12/3/2016	6:00	7:00	1.00	PRDHEQ	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; CO-ROD OPERATIONS
	7:00	9:30	2.50	PRDHEQ	39		P		TSIP 0 PSI CSIP 200 PSI PUMP 60 BBLS OF HOT 2% KCL WATER DOWN CSG TOH w CO-ROD SHUT WELL IN w BULL PLUG w NIDDLE VALVE
	9:30	10:30	1.00	RDMO	02		P		RDMO CO-ROD
	10:30	12:30	2.00	MIRU	01		P		MIRU
	12:30	15:30	3.00	WHDTR	16		P		REMOVE FLOW LINES AND B-FLANGE INSTALL PERFORATED SUB HANGER W/ TWC. NU AND TEST 5M BOP 2 250 LOW AND 4000 PSI HIGH.
	15:30	17:00	1.50	WOR	39		P		RELEASED TAC. RU SCANNERS. TOO H W/ 28-JTS 2 7/8 L-80 EUE TBG EOT @ 7499'. CLOSED IN WELL. CSG BARRIER 1 AND 2 KILL FLUID AND PIPE RAMS LOCKED. TBG BARRIER 1 AND 2 TIW VALVE AND NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
12/4/2016	6:00	7:00	1.00	UNINSTUB	28		P		CREW TRAVEL, SAFETY MEETING, FILL OUT AND REVIEW JSA'S SCANNING AND LAYING DOWN TUBING
	7:00	14:30	7.50	UNINSTUB	39		P		CSIP @ 40 PSI. TSIP @ 0 PSI. CONTINUE TO SCAN TUBING OUT OF HOLE LAYING DOWN 54 BLUE AND 5 RED JTS TUBING RIG DOWN SCANNERS AND LAY DOWN BHA
	14:30	15:00	0.50	WOR	18		P		CLEAN UP RIG AND BOP'S
	15:00	17:15	2.25	WOR	39		P		TRIP INTO WELL W/ 92 JTS TUBING.FLUSH TUBING W/ 20 BBLS 2% KCL AND POOH LAYING DOWN 61 JTS TUBING.
	17:15	17:30	0.25	WOR	18		P		CLOSED IN WELL. CSG BARRIER 1 AND 2 KILL FLUID AND PIPE RAMS LOCKED. TBG BARRIER 1 AND 2 TIW VALVE AND NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN. (PUMPED 230 BBLS)
12/5/2016	6:00	7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON LAYING DOWN TUBING. FILLED OUT AND REVIEWED JSA.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	7:30 11:00	3.50	WOR	24		P		0 CSIP 0 TSIP. OPENED WELL. LD 30-JTS 2 7/8 L-80 EUE TBG. RIH W/ 5 3/4 NO-GO, 2 7/8 4' PERFORATED SUB AND 100-JTS 2 7/8 L-80 EUE TBG. FLUSHED TBG LD 10-JTS 2 7/8 L-80 EUE TBG, 4' 2 7/8 PERFORATED SUB AND 5 3/4 NO-GO.
	11:00 18:00	7.00	WBP	26		P		RU WIRELINE RIH W/ 6" GR/JB TO LINER TOP @8463' RIH W/ 4" GR/JB TO 8680'. RIH SET 15K CBP @ 8675'. RIH DUMPED BAILED 15' CEMENT ON TOP OF CBP. RD WIRELINE. CLOSED IN WELL. CSG BARRIER 1 AND 2 CBP AND BLIND RAMS LOCKED. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
12/6/2016	6:00 7:00	1.00	RDMO	18		P		TRAVEL TO LOC HSM, WRITE AND REVIEW JSA= TEST AND RIG DOWN
	7:00 9:00	2.00	RDMO	18		P		FILL HOLW W/ KCL TEST TO 1500 PSI RD FLOOR AND TUBING EQUIP ND BOPS NU FRAC VALVE
	9:00 10:00	1.00	RDMO	18		P		RD RIG MOVE OFF TEST FRAC VALVE AND CSG TO 8000 PSI
	10:00 13:30	3.50	WHD TRE	36		P		NU AND TEST FRAC STACK TO 9500 PSI, NU AND TEST FLOW LINE TO 8000 PSI
	13:30 18:00	4.50	STG01	21		P		MIRU W/L TEST EQUIP TO 4500 PSI, PU RIH SHOOT 1ST STAGE @ 8486'-8648' WITH 3-1/8" SCALLOPED GUNS, 3 SPF, 120° PH, 22.7 GM, PRESS CSG TO 1000 PSI LOST 500 PSI W/ PERFING RD W/L SHUT ALL FRAC VALVES AND CSG VALVES W/ CAPS SDFN READY TO FRAC 1ST STAGE
12/9/2016	6:00 7:00	1.00	MIRU	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC OPERATIONS
	7:00 11:00	4.00	MIRU	01		P		MIRU TOPS FRAC EQUIPMENT
	11:00 19:00	8.00	MIRU	01		N		HYDRATION UNIT WOULD NOT START INSTALLED NEW BATTERY SHORTED CONTROL PANEL AND COMPUTER MONITOR REPAIRED CONTROL PANEL BUT COULD NOT GET MONITOR WORKING PLAN IS TO INSTALL A MONITER OFF A DIFFERANT UNIT AND SEE IF THEY CAN PROGRAM IT TO WORK WITH THE HYDRATION UNIT ON LOCATION SDFN
12/10/2016	6:00 7:00	1.00	STG01	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC OPERATIONS
	7:00 9:20	2.33	STG01	35		P		STAGE 1 PROP; PRESSURE TEST LINES TO 9500 PSI. OPEN WELL. 104 PSI BRAKE DOWN STG 1 PERFORATION 8648' TO 8486' AT 4195 PSI, PUMPING 10 BPM TREAT w/ 7000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH SHUT DOWN FOR 15 MIN ISDP 3244 PSI 5MIN 1945 PSI 10 MIN 1699 PSI 15MIN 1566 PSI TREATED STAGE 1... DUE TO BLEED OFF ADDED 6000# 100 MESH ADDED 3000 GALS TO SWEEP FRAC w 20# XL FOR ENTIRE STG FR WATER SPACER 25# CROSSLINK PAD 25# CROSSLINK 100 MESH 20# XL SWEEP 20# XL .05# W30/50 20# XL 1# W 30/50 20# CROSSLINK 1.75# W 30/50 20# CROSSLINK 2.5# W30/50 20# CROSSLINK STG FLUSH TO TOP PERF...ISDP 3233 PSI. AVG RATE 47.8 BPM. AVG PSI 4798 PSI. MAX PSI 6366 PSI. TTL PROP 95720# 5 MIN 2952 PSI 10 MIN 2784 PSI 15 MIN 2623 PSI TURN WELL OVER TO WIRELINE
	9:20 12:00	2.67	STG02	21		P		STAGE 2; SET COMPOSITE FRAC PLUG AT 8431' PRESSURE ON WELL 3000 PSI PERFORATE STAGE 2 PERFORATIONS 8384' TO 8191', 23 NET FEET 69 TTL SHOTS w/3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 2500 PSI ALL PERFS CORRELATED TO LONE WOLF WIRELINE CBL/GR/CCL LOG RUN #1 7/29/14
	12:00 12:48	0.80	STG02	35		P		STAGE 2 ACID; PRESSURE TEST LINES TO 8500 PSI. OPEN WELL. 1835 PSI BRAKE DOWN STG 2 PERFORSTION 8384'-TO 8191' AT 3833 PSI, TREAT w/ 25000 GAL 15% HCL ACID DROP 10 BIO BALL EVERY 2500 GALS TTL OF 90 BIO BALLS FLUSH TO BTM PERF + 10 BBLS SHUT DOWN FOR 15 MIN ISDP 2535 PSI 5MIN 2444 PSI 10 MIN 2379 PSI 15MIN 2326 PSI TURN WELL OVER TO WIRELINE



## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	12:48 14:40	1.87	STG03	21		P		STAGE 3; SET COMPOSITE FRAC PLUG AT 8151' PRESSURE ON WELL 2500 PSI PERFORATE STAGE 3 PERFORATIONS 8136' TO 7862', 23 NET FEET 69 TTL SHOTS w/3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 1900 PSI ALL PERFS CORRELATED TO LONE WOLF WIRELINE CBL/GR/CCL LOG RUN #1 7/29/14
	14:40 17:32	2.87	STG03	35		P		OFF LOAD AND MIX ACID
	17:32 18:37	1.08	STG03	35		P		STAGE 3 ACID; PRESSURE TEST LINES TO 8500 PSI. OPEN WELL 1405 PSI BRAKE DOWN STG 3 PERFORSTION 8136'-TO 7862' AT 2760 PSI, TREAT w/ 30000 GAL 15% HCL ACID DROP 9 BIO BALL EVERY 2727 TTL OF 90 BIO BALLS GALS FLUSH TO BTM PERF + 10 BBLS SHUT DOWN FOR 15 MIN ISDP 1813 PSI 5MIN 1582 PSI 10 MIN 1525 PSI 15MIN 1492 PSI TURN WELL OVER TO WIRELINE
	18:37 21:00	2.38	STG04	21		P		STAGE 4; SET COMPOSITE FRAC PLUG AT 7641' PRESSURE ON WELL 1500 PSI PERFORATE STAGE 4 PERFORATIONS 7626' TO 7476', 21 NET FEET 63 TTL SHOTS w/3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 1000 PSI ALL PERFS CORRELATED TO LONE WOLF WIRELINE CBL/GR/CCL LOG RUN #1 7/29/14 SECURE WELL CLOSE HCR VALVES AND LOCK BARRIER 1 & 2 CLOSE GROUND VALVES BARRIER 3 & 3 SDFN MIRU HOT OIL TRUCK BUMP UP WATER
12/11/2016	6:00 7:00	1.00	STG04	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC OPERATIONS
	7:00 10:00	3.00	STG04	35		P		OFF LAOD AND MIX ACID
	10:00 12:36	2.60	STG04	35		P		STAGE 4; PRESSURE TEST LINES TO 8500 PSI. OPEN WELL. 935 PSI BRAKE DOWN STG 4 PERFORATION 7626' TO 7476' AT 1828 PSI, PUMPING 10 BPM TREAT w/ 7000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH SHUT DOWN FOR 15 MIN ISDP 1560 PSI FG .64 5MIN 1489 PSI 10 MIN 1371 PSI 15MIN 1288 PSI TREATED STAGE 4... AS PER PROCEDURE FR WATER SPACER 25# CROSSLINK PAD 25# CROSSLINK 100 MESH 10# LINEAR GEL SWEEP 10# LINEAR GEL .05# W30/50 10# LINEAR GEL 1# W 30/50 20# CROSSLINK 1.75# W 30/50 20# CROSSLINK 2.5# W30/50 20# CROSSLINK STG FLUSH TO TOP PERF...ISDP 1857 PSI. AVG RATE 76.1 BPM. AVG PSI 2547 PSI. MAX PSI 2787 PSI. TTL PROP 80968# 5 MIN 1489 PSI 10 MIN 1371 PSI 15 MIN 1285 PSI TURN WELL OVER TO WIRELINE
	12:36 14:25	1.82	STG05	21		P		STAGE 5; SET COMPOSITE FRAC PLUG AT 7416' PRESSURE ON WELL 1500 PSI PERFORATE STAGE 5 PERFORATIONS 7401' TO 7287', 17 NET FEET 51 TTL SHOTS w/3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 1100 PSI ALL PERFS CORRELATED TO LONE WOLF WIRELINE CBL/GR/CCL LOG RUN #1 7/29/14
	14:25 15:34	1.15	STG05	35		P		STAGE 5; PRESSURE TEST LINES TO 8500 PSI. OPEN WELL.0 PSI BRAKE DOWN STG 5 PERFORSTION 7401' TO 7287' AT 3014 PSI, TREAT w/ 13000 GAL 15% HCL ACID DROP 17 BIO BALL EVERY 2600 GALS TTL OF 68 BIO BALLS FLUSH TO BTM PERF + 10 BBLS SHUT DOWN FOR 15 MIN ISDP 1130 PSI 5MIN 974 PSI 10 MIN 931 PSI 15MIN 903 PSI SECURE WELL CLOSE 7" MASTER VALVE BARRIER 1 CLOSE AND LOCK HCR VALVES BARRIER 2 & 3 CLOSE AND NIGHT CAP 7" CSG VALVES BARRIER 1 & 2
	15:34 18:30	2.93	RDMO	02		P		RDMO WIRELINE RDMO FRAC EQUIPMENT
	18:30 18:30	0.00	FB	17		P		FLOW BACK WELL ON A 12/64 CHOKE
12/16/2016	6:00 7:00	1.00	MIRU	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 8:30	1.50	MIRU	01		P		SPOT & RU RIG
	8:30 11:00	2.50	WOR	15		P		KILL WELL W/ 315 BBLS 10 PPG BRINE WTR
	11:00 14:00	3.00	WOR	16		P		ND FRAC STACK TO MANUAL FRAC VALVE. NU BOP & ANNULAR BOP. TEST EACH COMPONANT AS PER RECOMPLETION SOP

## 2.1 Operation Summary (Continued)

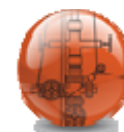
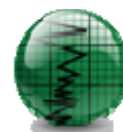
Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	14:00 17:30	3.50	WOR	24		P		MU 6" BIT & BIT SUB. TIH W/ BIT, BIT SUB, 1 JT 2-7/8"EUE TBG, SEAT NIPPLE 7 199 JTS 2-7/8"EUE TBG. SDFN W/ BIT @ 6511'. SDFN W/ PIPE RAMS CLOSED & LOCKED (BARRIER 1), ANNULAR CLOSED (BARRIER 2), TIW VALVE INSTALLED IN TBG CLOSED & CAPPED (BARRIERS 1 & 2) & TREATOR SIDE CSG VALVE & FLOWLINE VALVE CLOSED (BARRIERS 1 & 2) & OFF SDE CSG VALVE CLOSED & CAPPED
12/17/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 9:00	2.00	WOR	24		P		SICP 200 PSI. SITP 400 PSI. BLEED PRESSURE OFF WELL. KILL TBG W/ 20 BBLs 10 PPG BRINE WTR. PU 30 JTS TBG. TAG CBP SET @ 7416' @ 7446' TBG MEASUREMENT.
	9:00 17:00	8.00	WOR	10		P		RU POWER SWIVEL. BREAK REVERSE CIRCULATION. DRILL CBP SET @ 7416' @ 7446' TBG MEASUREMENT. CIRCULATE CLEAN. KILL TBG W/ 10 BBLs 10 PPG BRINE WTR. TIH & TAG @ 7656'. BREAK REVERSE CIRCULATION & CLEAN OUT TO CBP SET @ 7641' @ 7671'. DRILL CBP & CIRCULATE CLEAN. KILL TBG W/ 15 BBLs 10 PPG BRINE WTR. TIH & TAG UP @ 8164' TBG MEASUREMENT. CLEAN OUT TO CBP SET @ 8151' @ 8181'. DRILL CBP. CIRCULATE CLEAN. KILL TBG W/ 15 BBLs 10 PPG BRINE WTR. RD POWER SWIVEL
	17:00 18:00	1.00	WOR	39		P		TOOH W/ 32 JTS 2-7/8"EUE TBG. DRAIN PUMP & PUMP LINES. SDFN W/ PIPE RAMS CLOSED & LOCKED (BARRIER 1), ANNULAR CLOSED (BARRIER 2), TIW VALVE INSTALLED IN TBG CLOSED & CAPPED (BARRIERS 1 & 2) & TREATOR SIDE CSG VALVE & FLOWLINE VALVE CLOSED (BARRIERS 1 & 2) & OFF SDE CSG VALVE CLOSED & CAPPED
12/18/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 8:30	1.50	WOR	15		P		SITP 120 PSI. SICP 300 PSI. BLEED PRESSURE OFF TBG. KILL TBG W/ 30 BBLs 10PPG BRINE WATER
	8:30 9:30	1.00	WOR	39		P		TIH W/ 31 JTS 2-7/8"EUE TBG. TAG CBP SET @ 8431' @ 8459' TBG MEASUREMENT. RU POWER SWIVEL.
	9:30 12:30	3.00	WOR	18		P		DRILL CBP. CIRCULATE BOTTOMS UP. KILL TBG W/ 25 BBLs 10 PPG BRINE WTR. CHASE CBP REMAINS TO LINER TOP. FINISH DRILLING CBP ON LINER TOP.
	12:30 14:00	1.50	WOR	39		P		TOOH W/ 44 JTS 2-7/8"EUE T BG. EOT 7088'. MU TBG HANGER & STRIP INTO PLACE
	14:00 16:00	2.00	WOR	16		P		NU FLOW LINES FROM TBG TO TREATOR & FLOWBACK TANK. CIRCULATE BRINE ATR FROM TBG
	16:00 6:00	14.00	FB	19		P		OPEN WELL TO TREATOR
12/19/2016	6:00 6:00	24.00	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 286 BBLs OIL & 985 BBLs WTR FLOWING @ 275 PSI ON A 32/64" CHOKE
12/20/2016	6:00 8:00	2.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	8:00 10:30	2.50	WOR	15		P		SICP 1500 PSI. FLOWING PSI 275 PSI. BLEED PRESSURE OFF CSG. KILL WELL W/ 325 BBLs 10 PPG BRINE WTR.
	10:30 14:30	4.00	WOR	39		P		TOOH W/ 209 JTS 2-7/8"EUE TBG, SEAT NIPPLE, 1 JT 2-7/8"EUE TBG, BIT SUB & BIT. TIH W/ 4-1/8"OD BIT, BIT SUB, 10 JTS 2-3/8"EUE TBG, X-OVER, 1 JT 2-7/8"EUE TB G, SEAT NIPPLE & 252 JTS 2-7/8"EUE TBG. RU POWER SWIVEL. WORK BIT THROUGH LINER HANGER. CONTINUE IN HOLE/. TAG FILL @ 8672' TBG MEASUREMENT.
	14:30 16:30	2.00	WOR	10		P		RU POWER SWIVEL. BREAK REVERSE CIRCULATION. CLEAN OUT TO 8682' TBG MEASUREMENT. LOST CIRCULATION & PLUGGED BIT. ATTEMPTS TO UNPLUG BIT FAILED.
	16:30 17:30	1.00	WOR	24		P		RD POWER SWIVEL. LD 7 JTS 2-7/8" EUE TBG.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	17:30 19:30	2.00	WOR	18		P		RU WIRELINE UNIT. RIH & PERFORATE TBG @ 8410'. POOH & RD WIRE LINE UNIT
	19:30 20:30	1.00	WOR	06		P		PUMP 50 BBLs 10PPG BRINE WTR DOWN TBG.
	20:30 21:30	1.00	WOR	24		P		POOH LAYING DOWN 49 JTS 2-7/8"EUE TBG. SDFN W/ PIPE RAMS CLOSED & LOCKED (BARRIER 1), ANNULAR CLOSED (BARRIER 2), TIW VALVE INSTALLED IN TBG CLOSED & CAPPED (BARRIERS 1 & 2) & TREATER SIDE CSG VALVE & FLOWLINE VALVE CLOSED (BARRIERS 1 & 2) & OFF SDE CSG VALVE CLOSED & CAPPED



# Weatherford®



---

## END OF WELL REPORT

FINAL SURVEYS

SECTION 1

DAILY ACTIVITIES

SECTION 2

BHA REPORTS

SECTION 3

MOTOR REPORTS

SECTION 4

SLIDE SHEET REPORTS

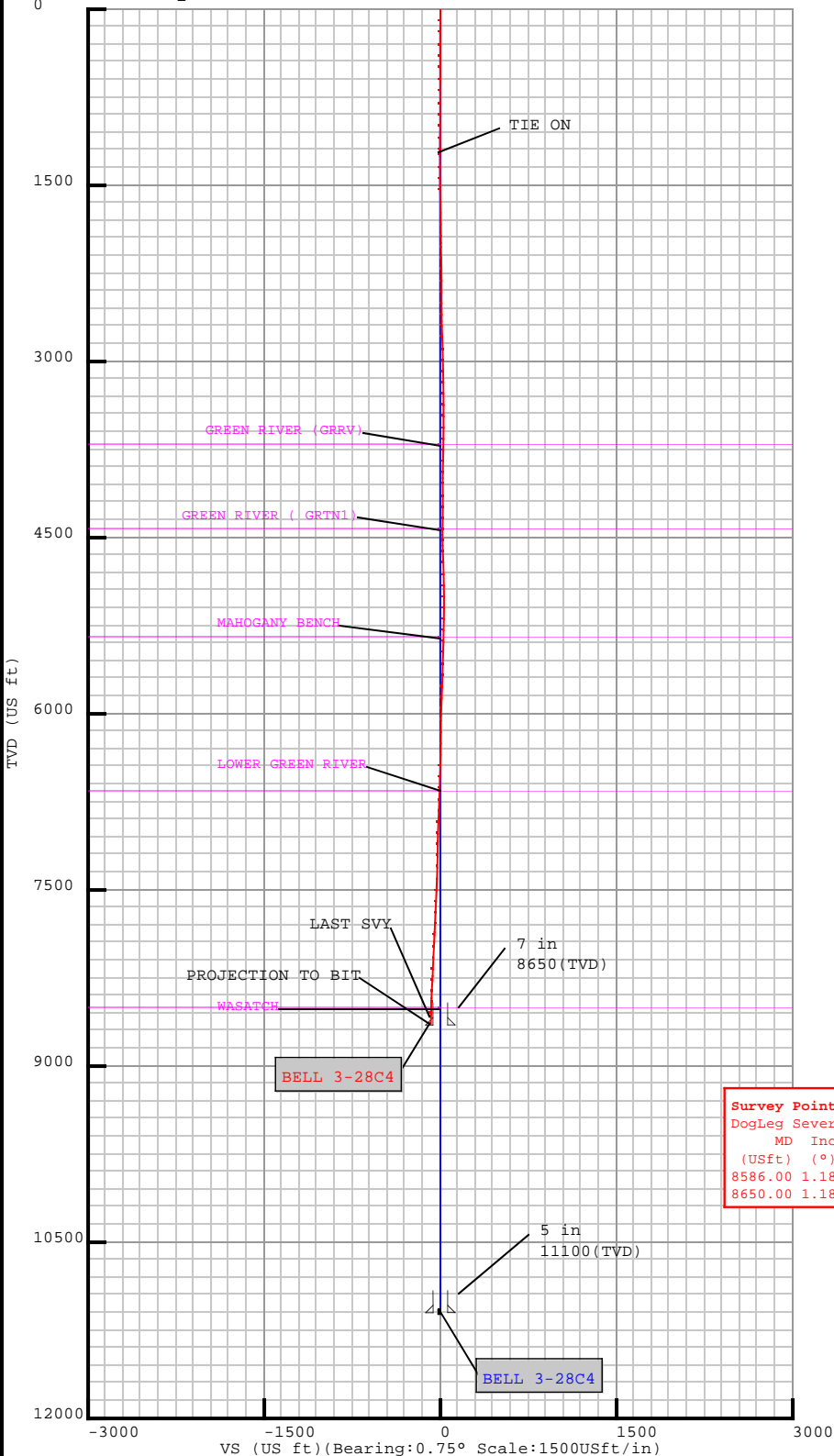
SECTION 5



## FINAL SURVEYS

---

Sundry Number: 77337 API Well Number: 43013522910000



**Field: UTAH\_CENTRAL\_ZONE\_NAD83**  
Map Unit: USFt Vertical Reference Datum (VRD):  
Projected Coordinate System: NAD83 / Utah Central (ftUS)

**Site: BELL 3-28C4**  
Unit: USFeet TVD Reference:  
Company Name: EP ENERGY  
Position: Northing: 7242647.78USft Latitude: 40.197143°  
Easting: 1965339.87USft Longitude: -110.336756°  
North Reference: True Grid Convergence: 0.75°  
Elevation Above VRD: 0.00USft

**Slot: BELL 3-28C4**  
Position:  
Offset is from Site centre  
+N/-S: 0.00USft Northing: 7242647.78USft Latitude: 40.197143°  
+E/-W: 0.00USft Easting: 1965339.87USft Longitude: -110.336756°  
Elevation Above VRD: 5840.40USft

**Well: BELL 3-28C4**  
Type: Main-Well  
File Number:  
Vertical Section: Position offset of origin from Slot centre:  
+N/-S: 0.00USft Azimuth: 0.75°  
+E/-W: 0.00USft  
Magnetic Parameters:  
Model: Field Strength: Declination: Dip: Date:  
BGGM 51951(nT) 11.16° 65.77° 2014-07-10

**Plan Point Information:**

DogLeg Severity Unit: °/100.00ft Position offsets from Slot centre

MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface	Build	Turn
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)	(DLSU)	(DLSU)
1230.00	0.19	94.20	1230.00	-2.25	0.47	-2.25	0.93	220.6	-0.28	-236.43
1249.73	0.01	347.34	1249.73	-2.26	0.51	-2.25	1.00	183.7	-0.91	-541.55
11100.00	0.01	347.34	11100.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00

**Formation Point Information:**

Name	TVD	Elevation	MD
	(USft)	(USft)	(USft)
GREEN RIVER (GRRV)	3707.00	2150.40	3707.00
GREEN RIVER ( GRTN1)	4437.00	1420.40	4437.00
MAHOGANY BENCH	5347.00	510.40	5347.00
LOWER GREEN RIVER	6657.00	-799.60	6657.00
WASATCH	8507.00	-2649.60	8507.00

**Target Set Information:**

Name	TVD	Lat	Long
	(USft)	(°)	(°)
PBHL	11100.00	40.197143	-110.336756

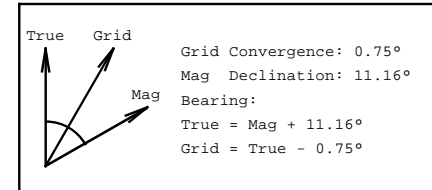
**Survey Point Information:**

DogLeg Severity Unit: °/100.00ft Position offsets from Slot centre

MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface	Build	Turn
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)	(DLSU)	(DLSU)
8586.00	1.18	180.14	8582.83	-79.42	-24.49	-79.73	0.45	207.5	-0.39	-10.00
8650.00	1.18	180.14	8646.82	-80.73	-24.50	-81.05	0.00	0.0	0.00	0.00

**Casing Point Information:**

Name	MD	TVD
	(USft)	(USft)
7 in	8650.00	8650.00
5 in	11100.00	11100.00





5D Survey Report

**5D Survey Report**

**EP ENERGY**

**Field Name:** *UTAH\_ CENTRAL ZONE\_NAD83*  
**Site Name:** *BELL 3-28C4*  
**Well Name:** *BELL 3-28C4*  
**Survey:** *WFT MWD SURVEYS*



5D Survey Report

DEFINITIVE SURVEYS FOR THE BELL 3-28C4

Site Name  BELL 3-28C4	Units : US ft		North Reference : True		Convergence Angle : 0.75	
	Position	Northing : 7242647.78 US ft			Latitude : 40.197143	
		Easting : 1965339.87 US ft			Longitude : -110.336756	
	Elevation above:5840.40 US ft					
Comment :						
Slot Name  BELL 3-28C4	Position (Offsets relative to Site Centre)					
	+N / -S : 0.00 US ft		Northing :7242647.78 US ft		Latitude : 40.197143	
	+E / -W : 0.00 US ft		Easting :1965339.87 US ft		Longitude : -110.336756	
	Slot TVD Reference : Ground Elevation					
	Elevation above : 5840.40 US ft					
	Comment :					
Well Name  BELL 3-28C4	Type : Main well			UWI :		
	Rig Height <i>Drill Floor</i> : 17.00 US ft			Comment :		
	Relative to : 5857.40 US ft					
	Closure Distance : 84.368 US ft			Closure Azimuth : 196.878°		
	Vertical Section (Position of Origin Relative to Slot )					
	+N / -S : 0.00 US ft			+E / -W : 0.00 US ft	Az :0.75°	

Target Set	
Name : BELL 3-28C4	Number of Targets : 1

Comment :

TargetName:  PBHL  Shape:  Cuboid	Position (Relative to centre)			
	+N / -S : 0.00US ft		Northing : 7242647.78 US ft	Latitude : 40°11'49.714777"
	+E / -W : 0.00 US ft		Easting : 1965339.87US ft	Longitude : -110°20'12.321993"
	TVD (Drill Floor) : 11100.00 US ft			
Orientation		Azimuth : 0.00°		Inclination : 0.00°
Dimensions		Length : 20.00 US ft		Breadth : 20.00 US ft
				Height : 20.00 US ft

## 5D Survey Report

**Survey Name :WFT MWD SURVEYS****Date :** 06/Aug/2014**Survey Tool :** MWD**Comment :****Company :****Magnetic Model****Model Name:** BGGM**Date:** 10/Jul/2014**Field Strength:** 51951.2 nT**Declination:** 11.16°**Dip:** 65.77°**Tie Point****MD:** 1230**Inclination:** 0.193**Azimuth:** 94.196**TVD:** 1230**North Offset:** -2.25499**East Offset:** 0.474016**Well path created using minimum curvature**

Survey Points (Relative to centre, TVD relative to Drill Floor )														
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (°)	Longitude (°)	DLS (°/100 US ft)	T.Face (°)	CL (US ft)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)	Comment
1352.00	0.14	267.26	1352.00	-2.28	0.53	40.197137	-110.336754	0.00	0.00	0.00	-2.27	0.03	0.05	
1448.00	0.18	232.22	1447.99	-2.38	0.29	40.197136	-110.336755	0.11	274.08	96.00	-2.37	-0.26	0.01	
1544.00	1.65	32.76	1543.98	-1.31	0.92	40.197139	-110.336753	1.90	162.43	96.00	-1.29	-0.98	0.12	
1641.00	1.02	23.12	1640.96	0.66	2.02	40.197145	-110.336749	0.69	194.85	97.00	0.69	-3.20	-0.30	
1737.00	0.87	19.51	1736.94	2.14	2.60	40.197149	-110.336747	0.17	199.85	96.00	2.17	-4.74	-0.56	
1833.00	0.70	350.13	1832.93	3.40	2.74	40.197152	-110.336746	0.45	232.87	96.00	3.44	-5.05	-3.18	
1930.00	0.23	349.11	1929.93	4.18	2.60	40.197154	-110.336747	0.48	180.50	97.00	4.21	-5.76	-3.28	
2026.00	1.63	56.35	2025.92	5.12	3.70	40.197157	-110.336743	1.62	75.07	96.00	5.17	-6.68	4.20	
2122.00	1.69	57.65	2121.88	6.64	6.03	40.197161	-110.336735	0.07	32.77	96.00	6.71	-9.35	4.36	
2218.00	1.59	60.26	2217.84	8.05	8.39	40.197165	-110.336726	0.13	144.54	96.00	8.16	-11.88	4.83	
2314.00	0.89	62.72	2313.81	9.06	10.20	40.197168	-110.336720	0.73	176.88	96.00	9.19	-13.74	5.37	
2411.00	0.63	64.30	2410.81	9.63	11.35	40.197169	-110.336715	0.27	176.18	97.00	9.78	-14.87	5.74	
2506.00	0.62	70.65	2505.80	10.03	12.31	40.197171	-110.336712	0.07	101.38	95.00	10.19	-15.17	7.39	
2603.00	0.45	60.13	2602.80	10.39	13.14	40.197172	-110.336709	0.20	204.83	97.00	10.56	-17.16	4.38	
2699.00	1.98	12.33	2698.77	12.20	13.82	40.197176	-110.336707	1.78	300.97	96.00	12.38	-16.65	-10.06	
2795.00	1.94	15.25	2794.72	15.39	14.60	40.197185	-110.336704	0.11	113.28	96.00	15.58	-20.40	-9.12	
2892.00	1.56	9.28	2891.67	18.28	15.24	40.197193	-110.336702	0.43	202.67	97.00	18.47	-22.27	-11.38	
2988.00	1.52	12.83	2987.64	20.81	15.74	40.197200	-110.336700	0.11	114.51	96.00	21.01	-25.49	-9.90	
3085.00	1.21	11.10	3084.61	23.07	16.22	40.197206	-110.336698	0.32	186.71	97.00	23.28	-27.47	-10.72	
3181.00	0.75	9.44	3180.59	24.68	16.52	40.197211	-110.336697	0.48	182.70	96.00	24.90	-28.78	-11.55	
3277.00	0.63	355.65	3276.59	25.83	16.58	40.197214	-110.336697	0.21	227.39	96.00	26.04	-26.31	-18.23	
3373.00	0.43	340.41	3372.58	26.69	16.42	40.197216	-110.336697	0.25	207.72	96.00	26.91	-21.44	-24.64	
3469.00	0.47	249.80	3468.58	26.90	15.93	40.197217	-110.336699	0.67	227.21	96.00	27.10	24.47	-21.52	
3565.00	0.44	220.08	3564.58	26.48	15.32	40.197216	-110.336701	0.24	248.06	96.00	26.68	31.20	-6.73	
3661.00	0.75	199.75	3660.57	25.60	14.87	40.197213	-110.336703	0.39	315.30	96.00	25.80	30.60	4.41	
3757.00	0.96	202.89	3756.56	24.27	14.35	40.197210	-110.336705	0.22	14.15	96.00	24.46	29.34	2.78	
3854.00	1.25	197.39	3853.54	22.51	13.72	40.197205	-110.336707	0.32	337.15	97.00	22.69	27.05	5.51	
3950.00	1.43	196.90	3949.52	20.37	13.05	40.197199	-110.336709	0.19	356.11	96.00	20.54	24.74	5.74	
4046.00	1.02	326.22	4045.51	19.93	12.23	40.197198	-110.336712	2.31	159.19	96.00	20.09	-11.31	-21.85	
4142.00	0.63	294.66	4141.50	20.86	11.28	40.197200	-110.336716	0.61	214.31	96.00	21.01	0.55	-24.96	
4238.00	0.68	235.68	4237.49	20.76	10.33	40.197200	-110.336719	0.67	244.37	96.00	20.90	20.83	-12.82	
4334.00	1.03	215.65	4333.48	19.74	9.35	40.197197	-110.336723	0.47	309.20	96.00	19.86	22.54	-5.09	

## 5D Survey Report

Survey Points (Relative to centre, TVD relative to Drill Floor )														
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (°)	Longitude (°)	DLS (°/100 US ft)	T.Face (°)	CL (US ft)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)	Comment
4430.00	1.24	208.83	4429.46	18.13	8.35	40.197193	-110.336726	0.26	323.81	96.00	18.24	21.08	-2.46	
4527.00	0.79	20.55	4526.46	17.84	8.08	40.197192	-110.336727	2.09	176.78	97.00	17.94	-20.82	-0.46	
4622.00	3.04	23.09	4621.40	20.77	9.30	40.197200	-110.336723	2.37	3.43	95.00	20.89	-23.95	0.48	
4718.00	1.96	22.99	4717.31	24.62	10.94	40.197211	-110.336717	1.13	180.18	96.00	24.76	-28.14	0.42	
4814.00	1.38	28.40	4813.26	27.15	12.13	40.197218	-110.336713	0.63	167.49	96.00	27.30	-30.75	3.21	
4909.00	1.07	21.79	4908.24	28.98	13.00	40.197223	-110.336710	0.36	201.23	95.00	29.15	-32.93	-0.49	
5005.00	0.52	37.06	5004.23	30.16	13.59	40.197226	-110.336707	0.61	166.45	96.00	30.33	-33.18	8.42	
5101.00	0.50	150.43	5100.23	30.14	14.06	40.197226	-110.336706	0.89	147.42	96.00	30.32	20.62	27.52	
5198.00	0.84	170.04	5197.22	29.07	14.40	40.197223	-110.336705	0.42	44.06	97.00	29.26	27.53	19.14	
5293.00	1.16	174.81	5292.21	27.43	14.60	40.197218	-110.336704	0.35	16.97	95.00	27.62	27.34	16.85	
5388.00	1.38	171.97	5387.19	25.34	14.85	40.197213	-110.336703	0.24	342.61	95.00	25.53	24.34	18.14	
5485.00	1.60	178.45	5484.15	22.83	15.05	40.197206	-110.336702	0.29	40.72	97.00	23.02	23.70	15.41	
5581.00	1.68	180.46	5580.11	20.08	15.08	40.197198	-110.336702	0.10	36.73	96.00	20.28	21.45	14.62	
5677.00	1.79	186.06	5676.07	17.18	14.91	40.197190	-110.336703	0.21	59.85	96.00	17.38	19.86	12.60	
5774.00	2.03	193.62	5773.02	14.01	14.34	40.197181	-110.336705	0.36	50.21	97.00	14.19	18.10	10.09	
5870.00	2.25	189.12	5868.95	10.49	13.64	40.197172	-110.336707	0.29	320.36	96.00	10.67	13.65	11.35	
5967.00	2.28	188.88	5965.87	6.71	13.04	40.197161	-110.336709	0.03	342.33	97.00	6.88	9.75	11.41	
6063.00	0.88	257.87	6061.84	4.67	12.03	40.197156	-110.336713	2.22	157.30	96.00	4.82	12.73	-3.22	
6158.00	1.27	262.56	6156.82	4.38	10.27	40.197155	-110.336719	0.42	15.07	95.00	4.51	10.64	-4.16	
6255.00	1.44	238.52	6253.80	3.60	8.16	40.197153	-110.336727	0.61	274.40	97.00	3.71	9.21	0.12	
6351.00	1.63	229.15	6349.76	2.08	6.10	40.197149	-110.336734	0.33	302.38	96.00	2.16	6.50	1.44	
6447.00	1.86	215.23	6445.72	-0.09	4.17	40.197143	-110.336741	0.50	291.41	96.00	-0.03	3.06	2.65	
6544.00	2.22	212.22	6542.66	-2.96	2.26	40.197135	-110.336748	0.39	341.92	97.00	-2.93	-0.54	2.74	
6640.00	2.08	202.06	6638.59	-6.15	0.62	40.197126	-110.336754	0.42	244.80	96.00	-6.14	-4.61	2.28	
6736.00	2.21	198.55	6734.52	-9.52	-0.63	40.197117	-110.336758	0.19	312.94	96.00	-9.53	-8.34	1.90	
6833.00	2.41	206.40	6831.44	-13.12	-2.13	40.197107	-110.336764	0.39	61.67	97.00	-13.15	-11.91	3.30	
6929.00	2.63	202.40	6927.35	-16.96	-3.87	40.197096	-110.336770	0.29	319.35	96.00	-17.01	-16.34	2.33	
7025.00	1.76	199.42	7023.28	-20.39	-5.20	40.197087	-110.336775	0.91	185.99	96.00	-20.46	-20.14	1.37	
7121.00	1.80	249.45	7119.24	-22.31	-7.10	40.197082	-110.336782	1.57	113.62	96.00	-22.40	-14.34	17.47	
7217.00	1.99	233.91	7215.19	-23.82	-9.86	40.197078	-110.336791	0.57	282.41	96.00	-23.95	-21.62	12.61	
7313.00	2.07	222.46	7311.13	-26.08	-12.37	40.197071	-110.336800	0.43	275.40	96.00	-26.24	-27.07	7.75	
7410.00	2.43	209.93	7408.05	-29.16	-14.58	40.197063	-110.336808	0.63	299.83	97.00	-29.35	-31.88	1.32	
7506.00	2.68	203.83	7503.96	-32.97	-16.50	40.197052	-110.336815	0.38	309.52	96.00	-33.19	-36.11	-2.28	
7602.00	2.87	195.84	7599.85	-37.34	-18.07	40.197040	-110.336821	0.45	292.13	96.00	-37.57	-40.08	-7.58	
7699.00	2.50	186.05	7696.74	-41.78	-18.95	40.197028	-110.336824	0.61	226.28	97.00	-42.02	-42.75	-14.70	
7795.00	2.84	181.43	7792.64	-46.24	-19.23	40.197016	-110.336825	0.42	325.35	96.00	-46.49	-45.90	-18.26	
7891.00	2.54	211.10	7888.53	-50.44	-20.39	40.197005	-110.336829	1.47	116.71	96.00	-50.70	-53.12	8.07	
7988.00	3.00	176.40	7985.43	-54.81	-21.34	40.196993	-110.336833	1.76	267.56	97.00	-55.09	-52.57	-24.86	
8084.00	2.75	165.90	8081.31	-59.55	-20.62	40.196980	-110.336830	0.61	239.43	96.00	-59.82	-51.97	-34.49	
8180.00	2.12	170.15	8177.22	-63.54	-19.76	40.196969	-110.336827	0.68	166.12	96.00	-63.79	-58.49	-30.37	
8275.00	3.42	192.58	8272.11	-68.03	-20.08	40.196956	-110.336828	1.76	51.39	95.00	-68.29	-70.05	-5.06	

5D Survey Report

Survey Points (Relative to centre, TVD relative to Drill Floor )														
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (°)	Longitude (°)	DLS (°/100 US ft)	T.Face (°)	CL (US ft)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)	Comment
8371.00	3.25	206.18	8367.95	-73.27	-21.90	40.196942	-110.336835	0.84	108.86	96.00	-73.55	-74.79	12.27	
8467.00	1.51	211.86	8463.86	-76.79	-23.77	40.196932	-110.336841	1.83	175.11	96.00	-77.09	-77.30	19.91	
8563.00	1.27	182.44	8559.84	-78.92	-24.48	40.196926	-110.336844	0.77	237.09	96.00	-79.24	-79.30	-21.25	
8586.00	1.18	180.14	8582.83	-79.42	-24.49	40.196925	-110.336844	0.45	207.50	23.00	-79.73	-78.88	-24.43	LAST SVY
8650.00	1.18	180.14	8646.82	-80.73	-24.50	40.196921	-110.336844	0.00	0.00	64.00	-81.05	-80.21	-24.43	PROJECTION TO BIT

Formation Points (Relative to centre, TVD relative to Drill Floor )		
Name	MD (US ft)	TVD (US ft)
GREEN RIVER (GRRV)	3707.43	3707.00
GREEN RIVER ( GRTN1)	4437.54	4437.00
MAHOGANY BENCH	5347.80	5347.00
LOWER GREEN RIVER	6658.42	6657.00
WASATCH	8510.15	8507.00

RECEIVED: Jan. 06, 2017



DAILY ACTIVITIES

**Weatherford®**

# Daily Activity Report

**Drilling Services**

v4.2.3981

**Day 1 - 2014/07/13****FILE #:** 4033363**JOB TYPE:** Vertical**RIG & NO:** Precision 406**WELL NAME:** BELL 3-28C4**COMPANY:** EP Energy**SURFACE LOCATION:** Duchesne UT**SERVICE CO.:** Precision Energy Services**SURVEY TYPE:** EM MWD**FIELD / LOCATION:** Duchesne / Utah / USA**DIR Supervisor:** Stephen Schear**MWD Supervisor:** Dave Anderson**Company Man:** Roy Derden**GROUND ELEV:** 5840.4 ft**KB ELEV:** 5857.4 ft**START DEPTH:** 1340.0 ft**END DEPTH:** 1300.0 ft**PROGRESS:** 0.0 ft**AVG. ROP.:** 0.0 ft/hr**DAILY COST:** USD\$23415.00**PREVIOUS COST:** USD\$0.00**TOTAL COST:** USD\$23415.00**WORK STATUS:** Operating*(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-12:00	Travel To Job	12.00	0	n/a	23:30-24:00	Handle Directional Tools	0.50	1300	1
12:00-23:30	Standby	11.50	0	n/a			0.00		

**TIME SUMMARY (hrs):**

<b>MOTOR DRILL:</b> 0.00	<b>ORIENTING HRS:</b> 0.00	<b>ROTARY DRILL:</b> 0.00
<b>TIME DRILL:</b> 0.00	<b>ROTATING HRS:</b> 0.00	<b>MOTOR HRS:</b> 0.00
<b>MOTOR REAM:</b> 0.00		<b>TRIP:</b> 0.00
<b>CIRC:</b> 0.00	<b>ROTARY DRILL:</b> 0.00	<b>OTHER:</b> 24.00
<b>MOTOR HRS:</b> 0.00	<b>DRILL HRS:</b> 0.00	<b>TOTAL HRS:</b> 24.00

**DRILLING PARAMETERS:**

<b>ROTARY TORQUE:</b>	<b>STRING WEIGHT</b> 0 lbs
<b>WOB SLIDING (HI):</b> 0 lbf	<b>WOB ROTATE (HI):</b> 0 lbf
<b>WOB SLIDING (LO):</b> 0 lbf	<b>WOB ROTATE (LO):</b> 0 lbf
<b>RPM (ROTARY):</b>	<b>DRAG UP:</b> 0 lbf
<b>RPM (MOTOR):</b>	<b>DRAG DN:</b> 0 lbf

**BHA / MOTOR / BIT INFORMATION:**

<b>BHA:</b> 1	<b>HOLE SIZE:</b> 8.75 in	<b>SECTION TYPE:</b> Main Hole	<b>SURVEY TYPE:</b> Positive Pulse MWD
<b>MANFCT.:</b> Hunting	<b>STABILIZER:</b> No	<b>SERIAL#:</b> 2712	<b>MODEL:</b> 7857
<b>SETTING:</b> 1.5 °	<b>KICKPAD:</b> No	<b>SIZE:</b> 6 3/4" (171mm)	<b>LOBE CFG.:</b> 7/8
<b>MANFCT:</b> Smith	<b>BIT TYPE:</b> PDC Bit	<b>TYPE:</b> MDSi516	<b>MTR HRS THIS DAY:</b> 0
<b>IADC BIT GRADE:</b> 4 / 3 / FC / A / X / I / CT / PR			<b>MTR HRS TO DATE:</b> 0
			<b>NOZZLES:</b> 0.752 in <sup>2</sup> TFA

**PUMP PARAMETERS**

<b>PRESSURE ON BTM:</b> 0	<b>PRESSURE OFF BTM:</b> 0	<b>TOTAL FLOW RATE:</b> 0.00 gal/min
<b>PUMP 1:</b> TYPE: 1000	<b>EFF.:</b> 95.0%	<b>SPM:</b> 0.00
<b>PUMP 2:</b> TYPE: 1000	<b>EFF.:</b> 95.0%	<b>SPM:</b> 0.00
<b>PUMP 3:</b> TYPE:	<b>EFF.:</b> 100.0%	<b>SPM:</b> 0.00
	<b>LINER:</b> 0.00 in	<b>STROKE VOL.:</b> 0.0000 gal/stk
	<b>LINER:</b> 0.00 in	<b>STROKE VOL.:</b> 0.0000 gal/stk
	<b>LINER:</b> 0.00 in	<b>STROKE VOL.:</b> 0.0000 gal/stk

**MUD RECORD**

<b>MUD TYPE:</b> Carbonox / Quik	<b>VISC:</b> 0 sec/qt	<b>WTR LOSS:</b> 0 cc/30min	<b>PV:</b> 0 cP	<b>YP:</b> 0 lb/100 ft <sup>2</sup>	<b>pH:</b> 0
<b>DENSITY:</b> 0 lb/gal	<b>GEL 0/10:</b> 0.00 lb/100 ft <sup>2</sup>	<b>SAND:</b> 0	<b>SOLIDS:</b> 0	<b>OIL:</b> 0	<b>TEMP:</b> 0 °F
<b>LIQUID BASE:</b> Water		<b>LIQUID RATE:</b> 0 gal/min	<b>GAS TYPE:</b>		<b>GAS RATE:</b> 0 cu ft/min

**COMMENTS:**

Travel to location prep tools wait on rig to nipple up, pressure test, and rig up.

P/U tools.

**CUSTOMER SIGNATURE:**



**Weatherford®**

# Daily Activity Report

Drilling Services

v4.2.3981

Day 2 - 2014/07/14

FILE #: 4033363

JOB TYPE: Vertical

RIG &amp; NO: Precision 406

WELL NAME: BELL 3-28C4

COMPANY: EP Energy

SURFACE LOCATION: Duchesne UT

SERVICE CO.: Precision Energy Services

SURVEY TYPE: EM MWD

FIELD / LOCATION: Duchesne / Utah / USA

DIR Supervisor: Stephen Schear

MWD Supervisor: Dave Anderson

Company Man: Roy Derden

GROUND ELEV: 5840.4 ft

KB ELEV: 5857.4 ft

START DEPTH: 1300.0 ft

END DEPTH: 3720.0 ft

PROGRESS: 2420.0 ft

AVG. ROP.: 146.5 ft/hr

DAILY COST: USD\$10005.00

PREVIOUS COST: USD\$23415.00

TOTAL COST: USD\$33420.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:50	Handle Directional Tools	0.83	1340	1	09:20-11:35	Rotating With Motor	2.25	1995	1
00:50-03:50	RIH With Directional	3.00	1340	1	11:35-11:45	EM MWD Surveys	0.17	1995	1
03:50-04:40	Rotating With Motor - Float, shoe	0.83	1340	1	11:45-11:55	Orienting With Motor	0.17	2020	1
04:40-05:05	Other - See Comments - FIT	0.42	1340	1	11:55-16:00	Rotating With Motor	4.08	2668	1
05:05-06:13	Rotating With Motor	1.13	1513	1	16:00-16:13	EM MWD Surveys	0.22	2668	1
06:13-06:19	EM MWD Surveys	0.10	1513	1	16:13-16:37	Orienting With Motor	0.40	2698	1
06:19-06:35	Orienting With Motor	0.27	1538	1	16:37-23:45	Rotating With Motor	7.13	3720	1
06:35-06:50	Rotating With Motor	0.25	1580	1	23:45-24:00	EM MWD Surveys	0.25	3720	1
06:50-09:20	Rig Repair	2.50	1580	1			0.00		

**TIME SUMMARY (hrs):**

MOTOR DRILL: 16.52	ORIENTING HRS: 0.83	ROTARY DRILL: 0.00
TIME DRILL: 0.00	ROTATING HRS: 15.68	MOTOR HRS: 16.52
MOTOR REAM: 0.00	TRIP: 3.00	
CIRC: 0.00	ROTARY DRILL: 0.00	OTHER: 4.48
MOTOR HRS: 16.52	DRILL HRS: 16.52	TOTAL HRS: 24.00

**DRILLING PARAMETERS:**

ROTARY TORQUE: 4000 ft-lb	STRING WEIGHT 115000 lbs
WOB SLIDING (HI): 20000 lbf	WOB ROTATE (HI): 30000 lbf
WOB SLIDING (LO): 5000 lbf	WOB ROTATE (LO): 10000 lbf
RPM (ROTARY): 70 rpm	DRAG UP: 120000 lbf
RPM (MOTOR): 125 rpm	DRAG DN: 110000 lbf

**BHA / MOTOR / BIT INFORMATION:**

BHA: 1	HOLE SIZE: 8.75 in	SECTION TYPE: Main Hole	SURVEY TYPE: Positive Pulse MWD
MANFCT.: Hunting	STABILIZER: No	SERIAL#: 2712	MODEL: 7857
SETTING: 1.5 °	KICKPAD: No	SIZE: 6 3/4" (171mm)	LOBE CFG.: 7/8
MANFCT: Smith	BIT TYPE: PDC Bit	TYPE: MDSi516	MTR HRS THIS DAY: 16.516666666666666
IADC BIT GRADE: 4 / 3 / FC / A / X / I / CT / PR			NOZZLES: 0.752 in² TFA

**PUMP PARAMETERS**

PRESSURE ON BTM: 2800	PRESSURE OFF BTM: 2400	TOTAL FLOW RATE: 497.20 gal/min
PUMP 1: TYPE: 1000	EFF.: 95.0%	SPM: 108.00
PUMP 2: TYPE: 1000	EFF.: 95.0%	SPM: 108.00
PUMP 3: TYPE:	EFF.: 100.0%	SPM: 0.00
	LINER: 5.00 in	STROKE VOL.: 2.4230 gal/stk
	LINER: 5.00 in	STROKE VOL.: 2.4230 gal/stk
	LINER: 0.00 in	STROKE VOL.: 0.0000 gal/stk

**MUD RECORD**

MUD TYPE: Carbonox / Quik	VISC: 65 sec/qt	WTR LOSS: 0 cc/30min	PV: 0 cP	YP: 0 lb/100 ft²	pH: 0
DENSITY: 9.4 lb/gal	GEL 0/10: 0.00 lb/100 ft²	SAND: 0	SOLIDS: 0	OIL: 0	TEMP: 0 °F
LIQUID BASE: Water		LIQUID RATE: 0 gal/min	GAS TYPE:		GAS RATE: 0 cu ft/min

**COMMENTS:**

P/U Tools, tool test well  
P/U DC's and HWDP tag around 1247' drill float and shoe perform FIT test  
  
Drill ahead F/1,340' - T/3,720'

CUSTOMER SIGNATURE: \_\_\_\_\_

**Weatherford®**

# Daily Activity Report

Drilling Services

v4.2.3981

Day 3 - 2014/07/15

FILE #: 4033363

JOB TYPE: Vertical

RIG &amp; NO: Precision 406

WELL NAME: BELL 3-28C4

COMPANY: EP Energy

SURFACE LOCATION: Duchesne UT

SERVICE CO.: Precision Energy Services

SURVEY TYPE: EM MWD

FIELD / LOCATION: Duchesne / Utah / USA

DIR Supervisor: Stephen Schear

MWD Supervisor: Dave Anderson

Company Man: Roy Derden

GROUND ELEV: 5840.4 ft

KB ELEV: 5857.4 ft

START DEPTH: 3720.0 ft

END DEPTH: 5593.0 ft

PROGRESS: 1873.0 ft

AVG. ROP.: 85.1 ft/hr

DAILY COST: USD\$10005.00

PREVIOUS COST: USD\$33420.00

TOTAL COST: USD\$43425.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-02:05	Rotating With Motor	2.08	4015	1	08:58-09:48	Orienting With Motor	0.83	4617	1
02:05-02:15	EM MWD Surveys	0.17	4015	1	09:48-12:20	Rotating With Motor	2.53	4879	1
02:15-02:50	Orienting With Motor	0.58	4045	1	12:20-12:30	EM MWD Surveys	0.17	4879	1
02:50-07:05	Rotating With Motor	4.25	4495	1	12:30-13:00	Rig Service	0.50	4879	1
07:05-07:18	EM MWD Surveys	0.22	4495	1	13:00-19:15	Rotating With Motor	6.25	5358	1
07:18-08:17	Orienting With Motor	0.98	4525	1	19:15-19:35	EM MWD Surveys	0.33	5358	1
08:17-08:52	Rotating With Motor	0.58	4592	1	19:35-20:05	Rig Service	0.50	5358	1
08:52-08:58	EM MWD Surveys	0.10	4592	1	20:05-24:00	Rotating With Motor	3.92	5593	1

**TIME SUMMARY (hrs):**

MOTOR DRILL: 22.02	ORIENTING HRS: 2.40	ROTARY DRILL: 0.00
TIME DRILL: 0.00	ROTATING HRS: 19.62	MOTOR HRS: 22.02
MOTOR REAM: 0.00	TRIP: 0.00	
CIRC: 0.00	ROTARY DRILL: 0.00	OTHER: 1.98
MOTOR HRS: 22.02	DRILL HRS: 22.02	TOTAL HRS: 24.00

**DRILLING PARAMETERS:**

ROTARY TORQUE: 5000 ft-lb	STRING WEIGHT: 150000 lbs
WOB SLIDING (HI): 25000 lbf	WOB ROTATE (HI): 35000 lbf
WOB SLIDING (LO): 5000 lbf	WOB ROTATE (LO): 15000 lbf
RPM (ROTARY): 80 rpm	DRAG UP: 158000 lbf
RPM (MOTOR): 125 rpm	DRAG DN: 144000 lbf

**BHA / MOTOR / BIT INFORMATION:**

BHA: 1	HOLE SIZE: 8.75 in	SECTION TYPE: Main Hole	SURVEY TYPE: Positive Pulse MWD
MANFCT.: Hunting	STABILIZER: No	SERIAL#: 2712	MODEL: 7857
SETTING: 1.5 °	KICKPAD: No	SIZE: 6 3/4" (171mm)	LOBE CFG.: 7/8
MANFCT: Smith	BIT TYPE: PDC Bit	TYPE: MDSi516	MTR HRS THIS DAY: 22.016666666666667
IADC BIT GRADE: 4 / 3 / FC / A / X / I / CT / PR			MTR HRS TO DATE: 38.53333333333333
			NOZZLES: 0.752 in² TFA

**PUMP PARAMETERS**

PRESSURE ON BTM: 2900	PRESSURE OFF BTM: 2450	TOTAL FLOW RATE: 530.23 gal/min
PUMP 1: TYPE: 1000	EFF.: 95.0% SPM: 115.00	LINER: 5.00 in
PUMP 2: TYPE: 1000	EFF.: 95.0% SPM: 115.00	LINER: 5.00 in
PUMP 3: TYPE:	EFF.: 100.0% SPM: 0.00	LINER: 0.00 in
		STROKE VOL.: 2.4267 gal/stk
		STROKE VOL.: 2.4267 gal/stk
		STROKE VOL.: 0.0000 gal/stk

**MUD RECORD**

MUD TYPE: Carbonox / Quik	VISC: 66 sec/qt	WTR LOSS: 4.8 cc/30min	PV: 23 cP	YP: 15 lb/100 ft²	pH: 11
DENSITY: 9.4 lb/gal	GEL 0/10: 4.00 lb/100 ft²	SAND: 0.25	SOLIDS: 7.8	OIL: 0	TEMP: 75 °F
LIQUID BASE: Water		LIQUID RATE: 0 gal/min	GAS TYPE:		GAS RATE: 0 cu ft/min

**COMMENTS:**

Drill ahead F/3,720' - T/ 5,593'  
Rig service

CUSTOMER SIGNATURE: \_\_\_\_\_

**Weatherford®**

# Daily Activity Report

**Drilling Services**

v4.2.3981

**Day 4 - 2014/07/16****FILE #:** 4033363**JOB TYPE:** Vertical**RIG & NO:** Precision 406**WELL NAME:** BELL 3-28C4**COMPANY:** EP Energy**SURFACE LOCATION:** Duchesne UT**SERVICE CO.:** Precision Energy Services**SURVEY TYPE:** EM MWD**FIELD / LOCATION:** Duchesne / Utah / USA**DIR Supervisor:** Stephen Schear**MWD Supervisor:** Dave Anderson**Company Man:** Roy Derden**GROUND ELEV:** 5840.4 ft**KB ELEV:** 5857.4 ft**START DEPTH:** 5593.0 ft**END DEPTH:** 6918.0 ft**PROGRESS:** 1325.0 ft**AVG. ROP.:** 107.9 ft/hr**DAILY COST:** USD\$11205.00**PREVIOUS COST:** USD\$43425.00**TOTAL COST:** USD\$54630.00**WORK STATUS:** Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-03:00	Rotating With Motor	3.00	5788	1	13:48-15:50	Rotating With Motor	2.03	6031	2
03:00-03:05	EM MWD Surveys	0.08	5788	1	15:50-16:05	EM MWD Surveys	0.25	6031	2
03:05-03:35	Circ & Condition Hole	0.50	5788	1	16:05-16:45	Orienting With Motor	0.67	6061	2
03:35-09:02	POOH For Bit - ROP	5.45	5788	1	16:45-20:50	Rotating With Motor	4.08	6511	2
09:02-09:50	Handle Directional Tools	0.80	5788	2	20:50-21:00	EM MWD Surveys	0.17	6511	2
09:50-13:30	RIH With Directional	3.67	5788	2	21:00-21:30	Rig Service	0.50	6511	2
13:30-13:48	Wash To Bottom	0.30	5788	2	21:30-24:00	Rotating With Motor	2.50	6918	2

**TIME SUMMARY (hrs):****MOTOR DRILL:** 12.28**TIME DRILL:** 0.00**MOTOR REAM:** 0.00**CIRC:** 0.80**MOTOR HRS:** 13.08**ORIENTING HRS:** 0.00**ROTATING HRS:** 3.00**ROTARY DRILL:** 0.00**DRILL HRS:** 12.28**ROTARY DRILL:** 0.00**MOTOR HRS:** 13.08**TRIP:** 9.12**OTHER:** 1.80**TOTAL HRS:** 24.00**DRILLING PARAMETERS:****ROTARY TORQUE:** 5000 ft-lb**WOB SLIDING (HI):** 35000 lbf**WOB SLIDING (LO):** 15000 lbf**RPM (ROTARY):** 80 rpm**RPM (MOTOR):** 125 rpm**STRING WEIGHT** 190000 lbs**WOB ROTATE (HI):** 30000 lbf**WOB ROTATE (LO):** 12000 lbf**DRAG UP:** 205000 lbf**DRAG DN:** 180000 lbf**BHA / MOTOR / BIT INFORMATION:****BHA:** 1**MANFCT.:** Hunting**SETTING:** 1.5 °**MANFCT:** Smith**IADC BIT GRADE:** 4 / 3 / FC / A / X / I / CT / PR**HOLE SIZE:** 8.75 in**STABILIZER:** No**KICKPAD:** No**BIT TYPE:** PDC Bit**SECTION TYPE:** Main Hole**SERIAL#:** 2712**SIZE:** 6 3/4" (171mm)**TYPE:** MDSi516**SURVEY TYPE:** Positive Pulse MWD**MODEL:** 7857**MTR HRS THIS DAY:** 3.5**NOZZLES:** 0.752 in² TFA**LOBE CFG.:** 7/8**MTR HRS TO DATE:** 42.03333333333333**BHA:** 2**MANFCT.:** Hunting**SETTING:** 1.5 °**MANFCT:** Security**IADC BIT GRADE:** ? / ? / ? / ? / ? / ? / ? / ?**HOLE SIZE:** 8.75 in**STABILIZER:** No**KICKPAD:** No**BIT TYPE:** PDC Bit**SECTION TYPE:** Main Hole**SERIAL#:** 2191**SIZE:** 6 3/4" (171mm)**TYPE:** MM54D**SURVEY TYPE:** Positive Pulse MWD**MODEL:** 7857**MTR HRS THIS DAY:** 9.583333333333333**NOZZLES:** 0.648 in² TFA**LOBE CFG.:** 7/8**MTR HRS TO DATE:** 9.583333333333333**PUMP PARAMETERS****PRESSURE ON BTM:** 2800**PUMP 1:** TYPE: 1000**PUMP 2:** TYPE: 1000**PUMP 3:** TYPE:**PRESSURE OFF BTM:** 2450**EFF.:** 95.0%**EFF.:** 95.0%**EFF.:** 100.0%**SPM:** 115.00**SPM:** 115.00**SPM:** 0.00**LINER:** 5.00 in**LINER:** 5.00 in**LINER:** 0.00 in**TOTAL FLOW RATE:** 530.23 gal/min**STROKE VOL.:** 2.4267 gal/stk**STROKE VOL.:** 2.4267 gal/stk**STROKE VOL.:** 0.0000 gal/stk**MUD RECORD****MUD TYPE:** Carbonox / Quik**DENSITY:** 9.55 lb/gal**LIQUID BASE:** Water**VISC:** 65 sec/qt**GEL 0/10:** 3.00 lb/100 ft²**WTR LOSS:** 5.2 cc/30min**SAND:** 0.25**LIQUID RATE:** 0 gal/min**PV:** 17 cP**SOLIDS:** 8.3**GAS TYPE:****YP:** 15 lb/100 ft²**OIL:** 0**pH:** 10.5**TEMP:** 75 °F**GAS RATE:** 0 cu ft/min**COMMENTS:**

Drill ahead F/5,593' - T/5,788'

Circulate to POOH for bit do to ROP

When out of hole there was an extra JT of drill pipe picked up when running in to drill out shoe.

Swap motor and bit

RIH with new BHA#2 wash to Btm 30'



# Daily Activity Report

Day 4 - 2014/07/16

Drilling Services  
v4.2.3981

Drill ahead F/5,788' - T/6,918'  
Rig service

CUSTOMER SIGNATURE: \_\_\_\_\_

**Weatherford®**

# Daily Activity Report

**Drilling Services**

v4.2.3981

**Day 5 - 2014/07/17****FILE #:** 4033363**JOB TYPE:** Vertical**RIG & NO:** Precision 406**WELL NAME:** BELL 3-28C4**COMPANY:** EP Energy**SURFACE LOCATION:** Duchesne UT**SERVICE CO.:** Precision Energy Services**SURVEY TYPE:** EM MWD**FIELD / LOCATION:** Duchesne / Utah / USA**DIR Supervisor:** Stephen Schear**MWD Supervisor:** Dave Anderson**Company Man:** Roy Derden**GROUND ELEV:** 5840.4 ft**KB ELEV:** 5857.4 ft**START DEPTH:** 6918.0 ft**END DEPTH:** 8650.0 ft**PROGRESS:** 1732.0 ft**AVG. ROP.:** 84.4 ft/hr**DAILY COST:** USD\$10005.00**PREVIOUS COST:** USD\$54630.00**TOTAL COST:** USD\$64635.00**WORK STATUS:** Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:20	Rotating With Motor	0.33	6993	2	14:00-16:35	Rotating With Motor	2.58	8353	2
00:20-00:40	EM MWD Surveys	0.33	6993	2	16:35-16:50	EM MWD Surveys	0.25	8353	2
00:40-01:20	Orienting With Motor	0.67	7018	2	16:50-17:46	Orienting With Motor	0.93	8388	2
01:20-01:48	Rotating With Motor	0.47	7089	2	17:46-18:22	Rotating With Motor	0.60	8464	2
01:48-01:53	EM MWD Surveys	0.08	7089	2	18:22-18:33	EM MWD Surveys	0.18	8464	2
01:53-02:30	Orienting With Motor	0.62	7109	2	18:33-19:40	Orienting With Motor	1.12	8494	2
02:30-07:20	Rotating With Motor	4.83	7666	2	19:40-20:15	Rotating With Motor	0.58	8551	2
07:20-07:45	EM MWD Surveys	0.42	7666	2	20:15-20:25	EM MWD Surveys	0.17	8551	2
07:45-08:18	Orienting With Motor	0.55	7676	2	20:25-21:25	Orienting With Motor	1.00	8571	2
08:18-12:40	Rotating With Motor	4.37	8089	2	21:25-22:08	Rotating With Motor	0.72	8650	2
12:40-12:50	EM MWD Surveys	0.17	8089	2	22:08-23:30	Circ & Condition Hole	1.37	8650	2
12:50-14:00	Orienting With Motor	1.17	8112	2	23:30-24:00	Wiper Trip	0.50	8650	2

**TIME SUMMARY (hrs):**

<b>MOTOR DRILL:</b> 20.53	<b>ORIENTING HRS:</b> 6.05	<b>ROTARY DRILL:</b> 0.00	<b>ROTARY TORQUE:</b> 75000 ft-lb	<b>STRING WEIGHT</b> 225000 lbs
<b>TIME DRILL:</b> 0.00	<b>ROTATING HRS:</b> 14.48	<b>MOTOR HRS:</b> 21.90	<b>WOB SLIDING (HI):</b> 40000 lbf	<b>WOB ROTATE (HI):</b> 35000 lbf
<b>MOTOR REAM:</b> 0.00		<b>TRIP:</b> 0.50	<b>WOB SLIDING (LO):</b> 10000 lbf	<b>WOB ROTATE (LO):</b> 15000 lbf
<b>CIRC:</b> 1.37	<b>ROTARY DRILL:</b> 0.00	<b>OTHER:</b> 1.60	<b>RPM (ROTARY):</b> 80 rpm	<b>DRAG UP:</b> 240000 lbf
<b>MOTOR HRS:</b> 21.90	<b>DRILL HRS:</b> 20.53	<b>TOTAL HRS:</b> 24.00	<b>RPM (MOTOR):</b> 125 rpm	<b>DRAG DN:</b> 210000 lbf

**BHA / MOTOR / BIT INFORMATION:**

<b>BHA:</b> 2	<b>HOLE SIZE:</b> 8.75 in	<b>SECTION TYPE:</b> Main Hole	<b>SURVEY TYPE:</b> Positive Pulse MWD
<b>MANFCT.:</b> Hunting	<b>STABILIZER:</b> No	<b>SERIAL#:</b> 2191	<b>MODEL:</b> 7857
<b>SETTING:</b> 1.5 °	<b>KICKPAD:</b> No	<b>SIZE:</b> 6 3/4" (171mm)	<b>LOBE CFG.:</b> 7/8
<b>MANFCT:</b> Security	<b>BIT TYPE:</b> PDC Bit	<b>TYPE:</b> MM54D	<b>MTR HRS THIS DAY:</b> 21.9
<b>IADC BIT GRADE:</b> ? / ? / ? / ? / ? / ? / ? / ?			<b>MTR HRS TO DATE:</b> 31.483333333333
			<b>NOZZLES:</b> 0.648 in² TFA

**PUMP PARAMETERS**

<b>PRESSURE ON BTM:</b> 3200	<b>PRESSURE OFF BTM:</b> 2775	<b>TOTAL FLOW RATE:</b> 516.39 gal/min
<b>PUMP 1:</b> TYPE: 1000	<b>EFF.:</b> 95.0%	<b>SPM:</b> 112.00
<b>PUMP 2:</b> TYPE: 1000	<b>EFF.:</b> 95.0%	<b>SPM:</b> 112.00
<b>PUMP 3:</b> TYPE:	<b>EFF.:</b> 100.0%	<b>SPM:</b> 0.00
	<b>LINER:</b> 5.00 in	<b>STROKE VOL.:</b> 2.4267 gal/stk
	<b>LINER:</b> 5.00 in	<b>STROKE VOL.:</b> 2.4267 gal/stk
	<b>LINER:</b> 0.00 in	<b>STROKE VOL.:</b> 0.0000 gal/stk

**MUD RECORD**

<b>MUD TYPE:</b> Carbonox / Quik	<b>VISC:</b> 65 sec/qt	<b>WTR LOSS:</b> 4.8 cc/30min	<b>PV:</b> 23 cP	<b>YP:</b> 15 lb/100 ft²	<b>pH:</b> 11
<b>DENSITY:</b> 9.7 lb/gal	<b>GEL 0/10:</b> 4.00 lb/100 ft²	<b>SAND:</b> 0.25	<b>SOLIDS:</b> 7.8	<b>OIL:</b> 0	<b>TEMP:</b> 75 °F
<b>LIQUID BASE:</b> Water		<b>LIQUID RATE:</b> 0 gal/min	<b>GAS TYPE:</b>		<b>GAS RATE:</b> 0 cu ft/min

**COMMENTS:**

Drill ahead F/6,918' - T/8,650'  
Rig Service  
Circulate hole, wiper trip

**CUSTOMER SIGNATURE:**


**Weatherford®**

# Daily Activity Report

**Drilling Services**  
v4.2.3981

**Day 6 - 2014/07/18**
**FILE #:** 4033363

**JOB TYPE:** Vertical

**RIG & NO:** Precision 406

**WELL NAME:** BELL 3-28C4

**COMPANY:** EP Energy

**SURFACE LOCATION:** Duchesne UT

**SERVICE CO.:** Precision Energy Services

**SURVEY TYPE:** EM MWD

**FIELD / LOCATION:** Duchesne / Utah / USA

**DIR Supervisor:** Stephen Schear

**MWD Supervisor:** Dave Anderson

**Company Man:** Roy Derden

**GROUND ELEV:** 5840.4 ft

**KB ELEV:** 5857.4 ft

**START DEPTH:** 8650.0 ft

**END DEPTH:** 8650.0 ft

**PROGRESS:** 0.0 ft

**AVG. ROP.:** 0.0 ft/hr

**DAILY COST:** USD\$10005.00

**PREVIOUS COST:** USD\$64635.00

**TOTAL COST:** USD\$74640.00

**WORK STATUS:** Operating

*(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-09:30	Wiper Trip	9.50	8650	2	14:10-22:50	Lay Down Drill Pipe	8.67	8650	2
09:30-14:10	Circ & Condition Hole	4.67	8650	2	22:50-24:00	Lay Down Directional Tools	1.17	8650	n/a

**TIME SUMMARY (hrs):**

<b>MOTOR DRILL:</b> 0.00	<b>ORIENTING HRS:</b> 0.00	<b>ROTARY DRILL:</b> 0.00	<b>ROTARY TORQUE:</b> 8000 ft-lb	<b>STRING WEIGHT</b> 225000 lbs
<b>TIME DRILL:</b> 0.00	<b>ROTATING HRS:</b> 0.00	<b>MOTOR HRS:</b> 4.67	<b>WOB SLIDING (HI):</b> 40000 lbf	<b>WOB ROTATE (HI):</b> 35000 lbf
<b>MOTOR REAM:</b> 0.00		<b>TRIP:</b> 18.17	<b>WOB SLIDING (LO):</b> 15000 lbf	<b>WOB ROTATE (LO):</b> 20000 lbf
<b>CIRC:</b> 4.67	<b>ROTARY DRILL:</b> 0.00	<b>OTHER:</b> 1.17	<b>RPM (ROTARY):</b> 80 rpm	<b>DRAG UP:</b> 240000 lbf
<b>MOTOR HRS:</b> 4.67	<b>DRILL HRS:</b> 0.00	<b>TOTAL HRS:</b> 24.00	<b>RPM (MOTOR):</b> 125 rpm	<b>DRAG DN:</b> 215000 lbf

**BHA / MOTOR / BIT INFORMATION:**

<b>BHA:</b> 2	<b>HOLE SIZE:</b> 8.75 in	<b>SECTION TYPE:</b> Main Hole	<b>SURVEY TYPE:</b> Positive Pulse MWD
<b>MANFCT.:</b> Hunting	<b>STABILIZER:</b> No	<b>SERIAL#:</b> 2191	<b>MODEL:</b> 7857
<b>SETTING:</b> 1.5 °	<b>KICKPAD:</b> No	<b>SIZE:</b> 6 3/4" (171mm)	<b>LOBE CFG.:</b> 7/8
<b>MANFCT:</b> Security	<b>BIT TYPE:</b> PDC Bit	<b>TYPE:</b> MM54D	<b>MTR HRS THIS DAY:</b> 4.666666666666667
<b>IADC BIT GRADE:</b> ? / ? / ? / ? / ? / ? / ? / ?			<b>NOZZLES:</b> 0.648 in <sup>2</sup> TFA

**PUMP PARAMETERS**

<b>PRESSURE ON BTM:</b> 3400	<b>PRESSURE OFF BTM:</b> 2700	<b>TOTAL FLOW RATE:</b> 516.39 gal/min
<b>PUMP 1:</b> TYPE: 1000	<b>EFF.:</b> 95.0%	<b>SPM:</b> 112.00
<b>PUMP 2:</b> TYPE: 1000	<b>EFF.:</b> 95.0%	<b>SPM:</b> 112.00
<b>PUMP 3:</b> TYPE:	<b>EFF.:</b> 100.0%	<b>SPM:</b> 0.00
	<b>LINER:</b> 5.00 in	<b>STROKE VOL.:</b> 2.4267 gal/stk
	<b>LINER:</b> 5.00 in	<b>STROKE VOL.:</b> 2.4267 gal/stk
	<b>LINER:</b> 0.00 in	<b>STROKE VOL.:</b> 0.0000 gal/stk

**MUD RECORD**

<b>MUD TYPE:</b> Carbonox / Quik	<b>VISC:</b> 66 sec/qt	<b>WTR LOSS:</b> 0 cc/30min	<b>PV:</b> 0 cP	<b>YP:</b> 0 lb/100 ft <sup>2</sup>	<b>pH:</b> 0
<b>DENSITY:</b> 10.5 lb/gal	<b>GEL 0/10:</b> 0.00 lb/100 ft <sup>2</sup>	<b>SAND:</b> 0	<b>SOLIDS:</b> 0	<b>OIL:</b> 0	<b>TEMP:</b> 0 °F
<b>LIQUID BASE:</b> Water		<b>LIQUID RATE:</b> 0 gal/min	<b>GAS TYPE:</b>		<b>GAS RATE:</b> 0 cu ft/min

**COMMENTS:**

Wiper trip, circulate, L/D DP, L/D tools

**CUSTOMER SIGNATURE:**

**Weatherford®**

# Daily Activity Report

**Drilling Services**

v4.2.3981

**Day 7 - 2014/07/19****FILE #:** 4033363**JOB TYPE:** Vertical**RIG & NO:** Precision 406**WELL NAME:** BELL 3-28C4**COMPANY:** EP Energy**SURFACE LOCATION:** Duchesne UT**SERVICE CO.:** Precision Energy Services**SURVEY TYPE:** EM MWD**FIELD / LOCATION:** Duchesne / Utah / USA**DIR Supervisor:** Stephen Schear**MWD Supervisor:** Dave Anderson**Company Man:** Roy Derden**GROUND ELEV:** 5840.4 ft**KB ELEV:** 5857.4 ft**START DEPTH:** 8650.0 ft**END DEPTH:** 8650.0 ft**PROGRESS:** 0.0 ft**AVG. ROP.:** 0.0 ft/hr**DAILY COST:** USD\$5400.00**PREVIOUS COST:** USD\$74640.00**TOTAL COST:** USD\$80040.00**WORK STATUS:** Standby

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-09:00	Standby	9.00	8650	n/a	09:00-24:00	Released	15.00	8650	n/a

**TIME SUMMARY (hrs):**

<b>MOTOR DRILL:</b>	0.00	<b>ORIENTING HRS:</b>	0.00	<b>ROTARY DRILL:</b>	0.00
<b>TIME DRILL:</b>	0.00	<b>ROTATING HRS:</b>	0.00	<b>MOTOR HRS:</b>	0.00
<b>MOTOR REAM:</b>	0.00			<b>TRIP:</b>	0.00
<b>CIRC:</b>	0.00	<b>ROTARY DRILL:</b>	0.00	<b>OTHER:</b>	24.00
<b>MOTOR HRS:</b>	0.00	<b>DRILL HRS:</b>	0.00	<b>TOTAL HRS:</b>	24.00

**DRILLING PARAMETERS:**

<b>ROTARY TORQUE:</b>		<b>STRING WEIGHT</b>	0 lbs
<b>WOB SLIDING (HI):</b>	0 lbf	<b>WOB ROTATE (HI):</b>	0 lbf
<b>WOB SLIDING (LO):</b>	0 lbf	<b>WOB ROTATE (LO):</b>	0 lbf
<b>RPM (ROTARY):</b>		<b>DRAG UP:</b>	0 lbf
<b>RPM (MOTOR):</b>		<b>DRAG DN:</b>	0 lbf

**BHA / MOTOR / BIT INFORMATION:**

<b>BHA:</b>	<b>HOLE SIZE:</b>	<b>SECTION TYPE:</b>	<b>SURVEY TYPE:</b>
<b>MANFCT.:</b>	<b>STABILIZER:</b>	<b>SERIAL#:</b>	<b>MODEL:</b>
<b>SETTING:</b>	<b>KICKPAD:</b>	<b>SIZE:</b>	<b>MTR HRS THIS DAY:</b>
<b>MANFCT:</b>	<b>BIT TYPE:</b>	<b>TYPE:</b>	<b>NOZZLES:</b>
<b>IADC BIT GRADE:</b>			<b>LOBE CFG.:</b>
			<b>MTR HRS TO DATE:</b>

**PUMP PARAMETERS**

<b>PRESSURE ON BTM: 0</b>	<b>PRESSURE OFF BTM: 0</b>	<b>TOTAL FLOW RATE: 0.00 gal/min</b>
<b>PUMP 1: TYPE: 1000</b>	<b>EFF.: 95.0% SPM: 0.00</b>	<b>LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk</b>
<b>PUMP 2: TYPE: 1000</b>	<b>EFF.: 95.0% SPM: 0.00</b>	<b>LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk</b>
<b>PUMP 3: TYPE:</b>	<b>EFF.: 100.0% SPM: 0.00</b>	<b>LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk</b>

**MUD RECORD**

<b>MUD TYPE:</b>	<b>VISC:</b> 0 sec/qt	<b>WTR LOSS:</b> 0 cc/30min	<b>PV:</b> 0 cP	<b>YP:</b> 0 lb/100 ft²	<b>pH:</b> 0
<b>DENSITY:</b> 0 lb/gal	<b>GEL 0/10:</b> 0.00 lb/100 ft²	<b>SAND:</b> 0	<b>SOLIDS:</b> 0	<b>OIL:</b> 0	<b>TEMP:</b> 0 °F
<b>LIQUID BASE:</b>		<b>LIQUID RATE:</b> 0 gal/min	<b>GAS TYPE:</b>		<b>GAS RATE:</b> 0 cu ft/min

**COMMENTS:**

laid down tools finished at 23:55 on the 18th. Load out tools, released, travel home

**CUSTOMER SIGNATURE:**





## BHA REPORTS

---


**Weatherford®**

# BHA Report

**Drilling Services**  
v4.2.3981

## BHA 1 - Main Hole Section

FILE #: 4033363

JOB TYPE: Vertical

RIG &amp; NO: Precision 406

WELL NAME: BELL 3-28C4

COMPANY: EP Energy

SURFACE LOCATION: Duchesne UT

SERVICE CO.: Precision Energy Services

SURVEY TYPE: EM MWD

FIELD / LOCATION: Duchesne / Utah / USA

DIR Supervisor: Stephen Schear

MWD Supervisor: Dave Anderson

Company Man: Roy Derden

BHA SURVEY TYPE: Positive Pulse MWD

HOLE SIZE: 8.75 in

QTY	COMPONENT	MANFCT.	SERIAL #	MODEL	O.D.	I.D.	F.N.	BOT. CONN.	TOP CONN.	LEN.	C.LEN.
1	PDC Bit	Smith	JG8710	MDSi516	8.75	0	0		4 1/2" REG Pin	1.00 ft	1.00 ft
1	Drilling Motor	Hunting	2712	7857	6.975	0	2.12	4 1/2" REG Box	4 1/2" XH Box	32.71 ft	33.71 ft
1	X/O Sub	Hunting	DHS 6243		6.6	3.1	0	4 1/2" XH Pin	4 1/2" IF Box	2.91 ft	36.62 ft
1	Short NMDC	Stabil Drill	DR6794	Non-Mag	6.75	3.25	0	4 1/2" IF Pin	4 1/2" IF Box	8.56 ft	45.18 ft
1	Double Pin	WFT/Casper	675-38985	Non-Mag	6.75	3.25	0	4 1/2" IF Pin	4 1/2" IF Pin	1.96 ft	47.14 ft
1	MWD Tool Carrier	Weatherford	675-16460	Non-Mag	6.75	3.9375	0	4 1/2" IF Box	4 1/2" IF Box	19.56 ft	66.70 ft
1	MWD Emitter Sub	Weatherford	675-40872	Non-Mag	6.8125	2.75	0	4 1/2" IF Pin	4 1/2" IF Box	10.79 ft	77.49 ft
1	NMDC	WFT/Casper	43166	NMDC	6.8	3.25	0	4 1/2" IF Pin	4 1/2" IF Box	29.46 ft	106.95 ft
1	X/O Sub	WFT/Casper	675-36324	Steel	6.875	2.8125	0	4 1/2" IF Pin	4 1/2" XH Box	3.13 ft	110.08 ft
15	Drill Collar	Rig	Rig	Steel	6.325	2.5	0	4 1/2" XH Pin	4 1/2" XH Box	457.85 ft	567.93 ft
9	HWDP	Rig	Rig	Steel	6.25	3	0	4 1/2" XH Pin	4 1/2" XH Box	273.81 ft	841.74 ft

(O.D. units are in; I.D. units are in; FNeck units are ft)

### GENERAL INFORMATION

**DATES RUN:** 2014/07/13 TO 2014/07/16  
**DEPTH IN:** 1300.00 ft **ANGLE IN:** 0.14 °  
**DEPTH OUT:** 5788.00 ft **ANGLE OUT:** 0.79 °  
**DRILL HRS:** 41.53 **BUILD:** 0.65 °  
**ORIENTING HRS:** 3.23 **HOLE MADE:** 4488.00 ft  
**ROTATING HRS:** 38.30 **AVG R.O.P.:** 108.07 ft/hr

### MOTOR INFORMATION

**MANFCT.** Hunting **SETTING:** 1.50 °  
**SERIAL #:** 2712 **KICK PAD:** No  
**MODEL:** 7857 **STABILIZER:** No  
**LOBE CFG:** 7/8 **MOTOR HRS:** 42.03  
**BIT TO BEND:** 6.25

### PUMP INFORMATION

PUMPS	PUMP 1	PUMP 2	PUMP 3
<b>EFFICIENCY:</b>	95.0%	95.0%	100.0%
<b>S.P.M.:</b>	115	115	0
<b>STROKE VOLUME:</b>	2.4267 gal/stk	2.4267 gal/stk	0.0 gal/stk
<b>TOTAL FLOW RATE:</b>	530.226 gal/min		
<b>PUMP PRESSURE:</b>	<b>OFF BTM:</b> 2450 psi	<b>ON BTM:</b> 2800 psi	

### MUD INFORMATION

**MUD TYPE:** Carbonox / Quik **LIQUID BASE:** Water  
**DENSITY:** 9.55 lb/gal **TEMP:** 75 °F  
**VISCOSITY:** 65 sec/qt **pH:** 10.5  
**WTR LOSS:** 5.2 cc/30min **SAND:** 0.25 **LIQUID RATE:** 0 gal/min  
**PLAST VISC:** 17 cP **SOLIDS:** 8.3 **GAS TYPE:**  
**YIELD PT:** 15 lb/100 ft² **OIL:** 0 **GAS RATE:** 0 cu ft/min

### BIT INFORMATION

**MANFCT:** Smith **TYPE:** MDSi516 **IADC BIT GRADE:** 4 / 3 / FC / A / X / I / CT / PR  
**NOZZLES:** 0.752 in² TFA

### REASON FOR BHA CHANGE

ROP

### FORMATION CHARACTERISTICS

Formation as expected good EM signal and formation pushing to the SW

### MWD COMMENTS

EM tool ran as expected, good signal strength, low noise level, tool will be ran in BHA#2



**Weatherford®**

# BHA Report

**Drilling Services**  
v4.2.3981

## BHA 1 - Main Hole Section

---

### SIDETRACKING PROCEDURE COMMENTS

N/A

---

### RUN SUMMARY

avg build rate with BHA#1 was 6/100, Condition when pulled was good, objective was not completed do to bit wear, no problems encountered.


**Weatherford®**

# BHA Report

**Drilling Services**  
v4.2.3981

## BHA 2 - Main Hole Section

FILE #: 4033363

JOB TYPE: Vertical

RIG &amp; NO: Precision 406

WELL NAME: BELL 3-28C4

COMPANY: EP Energy

SURFACE LOCATION: Duchesne UT

SERVICE CO.: Precision Energy Services

SURVEY TYPE: EM MWD

FIELD / LOCATION: Duchesne / Utah / USA

DIR Supervisor: Stephen Schear

MWD Supervisor: Dave Anderson

Company Man: Roy Derden

BHA SURVEY TYPE: Positive Pulse MWD

HOLE SIZE: 8.75 in

QTY	COMPONENT	MANFCT.	SERIAL #	MODEL	O.D.	I.D.	F.N.	BOT. CONN.	TOP CONN.	LEN.	C.LEN.
1	PDC Bit	Security	12367697	MM54D	8.75	0	0		4 1/2" REG Pin	1.00 ft	1.00 ft
1	Drilling Motor	Hunting	2191	7857	7	0	2.3	4 1/2" REG Box	4 1/2" XH Box	31.68 ft	32.68 ft
1	X/O Sub	Hunting	DHS 6243		6.6	3.1	0	4 1/2" XH Pin	4 1/2" IF Box	2.91 ft	35.59 ft
1	Short NMDC	Stabil Drill	DR6794	Non-Mag	6.75	3.25	0	4 1/2" IF Pin	4 1/2" IF Box	8.56 ft	44.15 ft
1	Double Pin	WFT/Casper	675-38985	Non-Mag	6.75	3.25	0	4 1/2" IF Pin	4 1/2" IF Pin	1.96 ft	46.11 ft
1	MWD Tool Carrier	Weatherford	675-16460	Non-Mag	6.75	3.9375	0	4 1/2" IF Box	4 1/2" IF Box	19.56 ft	65.67 ft
1	MWD Emitter Sub	Weatherford	675-40872	Non-Mag	6.8125	2.75	0	4 1/2" IF Pin	4 1/2" IF Box	10.79 ft	76.46 ft
1	NMDC	WFT/Casper	43166	NMDC	6.8	3.25	0	4 1/2" IF Pin	4 1/2" IF Box	29.46 ft	105.92 ft
1	X/O Sub	WFT/Casper	675-36324	Steel	6.875	2.8125	0	4 1/2" IF Pin	4 1/2" XH Box	3.13 ft	109.05 ft
15	Drill Collar	Rig	Rig	Steel	6.325	2.5	0	4 1/2" XH Pin	4 1/2" XH Box	457.85 ft	566.90 ft
9	HWDP	Rig	Rig	Steel	6.25	3	0	4 1/2" XH Pin	4 1/2" XH Box	273.81 ft	840.71 ft

(O.D. units are in; I.D. units are in; FNeck units are ft)

### GENERAL INFORMATION

**DATES RUN:** 2014/07/16 TO 2014/07/18  
**DEPTH IN:** 5788.00 ft **ANGLE IN:** 0.00 °  
**DEPTH OUT:** 8650.00 ft **ANGLE OUT:** 1.51 °  
**DRILL HRS:** 29.82 **BUILD:** 1.51 °  
**ORIENTING HRS:** 6.72 **HOLE MADE:** 2862.00 ft  
**ROTATING HRS:** 23.10 **AVG R.O.P.:** 95.98 ft/hr

### MOTOR INFORMATION

**MANFCT.** Hunting **SETTING:** 1.50 °  
**SERIAL #:** 2191 **KICK PAD:** No  
**MODEL:** 7857 **STABILIZER:** No  
**LOBE CFG:** 7/8 **MOTOR HRS:** 36.15  
**BIT TO BEND:** 6.25

### PUMP INFORMATION

PUMPS	PUMP 1	PUMP 2	PUMP 3
<b>EFFICIENCY:</b>	95.0%	95.0%	100.0%
<b>S.P.M.:</b>	112	112	0
<b>STROKE VOLUME:</b>	2.4267 gal/stk	2.4267 gal/stk	0.0 gal/stk
<b>TOTAL FLOW RATE:</b>	516.39402 gal/min		
<b>PUMP PRESSURE:</b>	<b>OFF BTM:</b> 2700 psi	<b>ON BTM:</b> 3400 psi	

### MUD INFORMATION

**MUD TYPE:** Carbonox / Quik **LIQUID BASE:** Water  
**DENSITY:** 10.5 lb/gal **TEMP:** 0 °F  
**VISCOSITY:** 66 sec/qt **pH:** 0  
**WTR LOSS:** 0 cc/30min **SAND:** 0 **LIQUID RATE:** 0 gal/min  
**PLAST VISC:** 0 cP **SOLIDS:** 0 **GAS TYPE:**  
**YIELD PT:** 0 lb/100 ft² **OIL:** 0 **GAS RATE:** 0 cu ft/min

### BIT INFORMATION

**MANFCT:** Security **TYPE:** MM54D **IADC BIT GRADE:** ?/?/?/?/?/?/?/?/?  
**NOZZLES:** 0.648 in² TFA

### REASON FOR BHA CHANGE

### FORMATION CHARACTERISTICS

### MWD COMMENTS



**Weatherford®**

# BHA Report

**Drilling Services**  
v4.2.3981

## BHA 2 - Main Hole Section

—SIDETRACKING PROCEDURE COMMENTS—

—RUN SUMMARY—



## MOTOR REPORTS

---


**Weatherford®**

# Motor / RSS Evaluation Report

**Drilling Services**  
v4.2.3981

## BHA 1 - Main Hole Section, Motor #2712

<b>FILE #:</b> 4033363	<b>WELL NAME:</b> BELL 3-28C4	<b>SERVICE CO.:</b> Precision Energy Services
<b>JOB TYPE:</b> Vertical	<b>COMPANY:</b> EP Energy	<b>SURVEY TYPE:</b> EM MWD
<b>RIG &amp; NO:</b> Precision 406	<b>SURFACE LOCATION:</b> Duchesne UT	<b>FIELD / LOCATION:</b> Duchesne / Utah / USA

**DIR Supervisor:** Stephen Schear  
**MWD Supervisor:** Dave Anderson  
**Company Man:** Roy Derden

**BHA SURVEY TYPE:** Positive Pulse MWD

**HOLE SIZE:** 8.75 in

**GENERAL INFORMATION:**

<b>BHA #:</b> 1	<b>START DEPTH:</b> 1300.00 ft
<b>DATE IN:</b> 2014/07/13	<b>END DEPTH:</b> 5788.00 ft
<b>DATE OUT:</b> 2014/07/16	<b>HOLE MADE:</b> 4488.00 ft
<b>ANGLE IN:</b> 0.14 °	<b>AVG ROP:</b> 108.07 ft/hr
<b>ANGLE OUT:</b> 0.79 °	
<b>ORIENTING HRS:</b> 3.23	<b>ROTATING HRS:</b> 38.30

**MOTOR INFORMATION:**

<b>MANFCT:</b> Hunting	
<b>SERIAL #:</b> 2712	
<b>MODEL:</b> 7857	
<b>LOBE:</b> 7/8	<b>BIT TO BEND:</b> 6.25 ft
<b>SETTING:</b> 1.50 °	<b>KICKPAD:</b> No
	<b>STABILIZER:</b> No

**DRILLING INFORMATION:**

<b>BIT TYPE:</b> MDSi516	<b>IADC BIT GRADE:</b> 4 / 3 / FC / A / X / I / CT / PR	
<b>BIT PRESS DROP:</b> 0.00 psi	<b>TOTAL FLOW RATE:</b> 530.23 gal/min	<b>PUMP PRESS:</b> (OFF) 2450.00 psi
<b>MTR PRESS DROP:</b> 0.00 psi	<b>NOZZLES:</b> 0.752 in <sup>2</sup> TFA	(ON) 2800.00 psi

**MUD INFORMATION:**

<b>MUD TYPE:</b> Carbonox / Quik	<b>LIQUID BASE:</b> Water	(All units are imperial.)
<b>DENSITY:</b> 10 lb/gal	<b>VISCOSITY:</b> 65 sec/qt	
<b>SAND:</b> 0.250	<b>WATER LOSS:</b> 5.20 cc/30min	<b>LIQUID RATE:</b> 0.00 gal/min
<b>SOLIDS:</b> 8.300	<b>PLASTIC VISC:</b> 17.0 cP	<b>GAS TYPE:</b>
<b>OIL:</b> 0.000	<b>YIELD POINT:</b> 15.0 lb/100 ft <sup>2</sup>	<b>GAS RATE:</b> 0.00 cu ft/min
<b>TEMP:</b> 75 °F	<b>pH:</b> 10.5	

**TIME INFORMATION:**

<b>CIRCULATING HOURS:</b>	0.50
<b>REAMING HOURS:</b>	0.00
<b>TIME DRILL HOURS:</b>	0.00
<b>MOTOR DRILL HOURS:</b>	41.53
<b>MOTOR HOURS THIS RUN:</b>	42.03
<b>PREVIOUS HOURS:</b>	0.00
<b>TOTAL MOTOR HOURS:</b>	42.03
<b>TOTAL BRT HOURS:</b>	42.03

**MOTOR EVALUATION COMMENTS:**

Hunting motor 2712 performed as expected. Motor had 42.03 hrs and when pulled drained well.

**REASON FOR BHA CHANGE:**

ROP

**COMMENTS FROM LAST DAY RAN:**

Drill ahead F/5,593' - T/5,788'  
 Circulate to POOH for bit do to ROP  
 When out of hole there was an extra JT of drill pipe picked up when running in to drill out shoe.  
 Swap motor and bit  
 RIH with new BHA#2 wash to Btm 30'





**Weatherford®**

## Motor / RSS Evaluation Report

Drilling Services

v4.2.3981

### BHA 1 - Main Hole Section, Motor #2712

---

Drill ahead F/5,788' - T/6,918'  
Rig service

**Weatherford®**

# Motor / RSS Evaluation Report

Drilling Services  
v4.2.3981

## BHA 2 - Main Hole Section, Motor #2191

<b>FILE #:</b> 4033363	<b>WELL NAME:</b> BELL 3-28C4	<b>SERVICE CO.:</b> Precision Energy Services
<b>JOB TYPE:</b> Vertical	<b>COMPANY:</b> EP Energy	<b>SURVEY TYPE:</b> EM MWD
<b>RIG &amp; NO:</b> Precision 406	<b>SURFACE LOCATION:</b> Duchesne UT	<b>FIELD / LOCATION:</b> Duchesne / Utah / USA

**DIR Supervisor:** Stephen Schear  
**MWD Supervisor:** Dave Anderson  
**Company Man:** Roy Derden

**BHA SURVEY TYPE:** Positive Pulse MWD**HOLE SIZE:** 8.75 in**GENERAL INFORMATION:**

<b>BHA #:</b> 2	<b>START DEPTH:</b> 5788.00 ft
<b>DATE IN:</b> 2014/07/16	<b>END DEPTH:</b> 8650.00 ft
<b>DATE OUT:</b> 2014/07/18	<b>HOLE MADE:</b> 2862.00 ft
<b>ANGLE IN:</b> 0.00 °	<b>AVG ROP:</b> 95.98 ft/hr
<b>ANGLE OUT:</b> 1.51 °	
<b>ORIENTING HRS:</b> 6.72	<b>ROTATING HRS:</b> 23.10

**MOTOR INFORMATION:**

<b>MANFCT:</b> Hunting	
<b>SERIAL #:</b> 2191	
<b>MODEL:</b> 7857	
<b>LOBE:</b> 7/8	<b>BIT TO BEND:</b> 6.25 ft
<b>SETTING:</b> 1.50 °	<b>KICKPAD:</b> No
	<b>STABILIZER:</b> No

**DRILLING INFORMATION:**

<b>BIT TYPE:</b> MM54D	<b>IADC BIT GRADE:</b> ?/?/?/?/?/?/?/?/?	
<b>BIT PRESS DROP:</b> 0.00 psi	<b>TOTAL FLOW RATE:</b> 516.39 gal/min	<b>PUMP PRESS:</b> (OFF) 2700.00 psi
<b>MTR PRESS DROP:</b> 0.00 psi	<b>NOZZLES:</b> 0.648 in <sup>2</sup> TFA	(ON) 3400.00 psi

**MUD INFORMATION:**

<b>MUD TYPE:</b> Carbonox / Quik	<b>LIQUID BASE:</b> Water	(All units are imperial.)
<b>DENSITY:</b> 11 lb/gal	<b>VISCOSITY:</b> 66 sec/qt	
<b>SAND:</b> 0.000	<b>WATER LOSS:</b> 0.00 cc/30min	<b>LIQUID RATE:</b> 0.00 gal/min
<b>SOLIDS:</b> 0.000	<b>PLASTIC VISC:</b> 0.0 cP	<b>GAS TYPE:</b>
<b>OIL:</b> 0.000	<b>YIELD POINT:</b> 0.0 lb/100 ft <sup>2</sup>	<b>GAS RATE:</b> 0.00 cu ft/min
<b>TEMP:</b> 0 °F	<b>pH:</b> 0.0	

**TIME INFORMATION:**

<b>CIRCULATING HOURS:</b>	6.33
<b>REAMING HOURS:</b>	0.00
<b>TIME DRILL HOURS:</b>	0.00
<b>MOTOR DRILL HOURS:</b>	29.82
<b>MOTOR HOURS THIS RUN:</b>	36.15
<b>PREVIOUS HOURS:</b>	0.00
<b>TOTAL MOTOR HOURS:</b>	36.15
<b>TOTAL BRT HOURS:</b>	36.15

**MOTOR EVALUATION COMMENTS:****REASON FOR BHA CHANGE:****COMMENTS FROM LAST DAY RAN:**

Wiper trip, circulate, L/D DP, L/D tools



## SLIDE SHEET REPORTS

---



# Slide Sheet Report

Drilling Services

v4.2.3981

## BHA 1 - 2014/07/13 TO 2014/07/16

FILE #: 4033363

JOB TYPE: Vertical

RIG &amp; NO: Precision 406

WELL NAME: BELL 3-28C4

COMPANY: EP Energy

SURFACE LOCATION: Duchesne UT

SERVICE CO.: Precision Energy Services

SURVEY TYPE: EM MWD

FIELD / LOCATION: Duchesne / Utah / USA

DIR Supervisor: Stephen Schear

MWD Supervisor: Dave Anderson

Company Man: Roy Derden

BHA NO: 1	DATES RUN: 2014/07/13 TO 2014/07/16	SECTION: Main Hole	TOOLFACE OFFSET: 319 °	SURVEY OFFSET: 65 ft
MOTOR SETTING: 1.50 °	KICKPAD: No	STABILIZER: No	MODEL: 7857	SERIAL NO: 2712
			BHA SURVEY TYPE: Positive Pulse MWD	

(Distances are shown in feet.)

BIT		SURVEY					----- ORIENTING -----			----- ROTATING -----			SLIDE	BUR	BUR	COMMENTS
DEPTH	DRILLED	DEPTH	INC	AZM	TF		FROM	TO	FEET	FROM	TO	FEET	SEEN	/ft	/100ft	
1340.00	173.00	1275.00	0.14	267.26			1340.00	1340.00	0.00	1340.00	1513.00	173.00	0.00	0.00	0.00	
1513.00	482.00	1448.00	0.18	232.22	30M		1513.00	1538.00	25.00	1538.00	1995.00	457.00	0.00	0.00	0.02	
1995.00	673.00	1930.00	0.23	349.11	30M		1995.00	2020.00	25.00	2020.00	2668.00	648.00	25.00	0.00	0.01	
2668.00	1347.00	2603.00	0.45	60.13	0M		2668.00	2698.00	30.00	2698.00	4015.00	1317.00	25.00	0.01	0.03	
4015.00	480.00	3950.00	1.43	196.90	20M		4015.00	4045.00	30.00	4045.00	4495.00	450.00	30.00	0.03	0.07	
4495.00	97.00	4430.00	1.24	208.83	20M		4495.00	4525.00	30.00	4525.00	4592.00	67.00	30.00	-0.01	-0.04	
4592.00	1196.00	4527.00	0.79	20.55	15M		4592.00	4617.00	25.00	4617.00	5788.00	1171.00	30.00	-0.01	-0.46	

<b>Totals:</b>	165.00 ft	4283.00 ft
<b>Percentages:</b>	3.7%	96.3%
<b>Time:</b>	3.23 hrs	38.30 hrs
<b>Percentages:</b>	7.8%	92.2%



# Slide Sheet Report

Drilling Services

v4.2.3981

BHA 2 - 2014/07/16 TO 2014/07/18

FILE #: 4033363

JOB TYPE: Vertical

RIG &amp; NO: Precision 406

WELL NAME: BELL 3-28C4

COMPANY: EP Energy

SURFACE LOCATION: Duchesne UT

SERVICE CO.: Precision Energy Services

SURVEY TYPE: EM MWD

FIELD / LOCATION: Duchesne / Utah / USA

DIR Supervisor: Stephen Schear

MWD Supervisor: Dave Anderson

Company Man: Roy Derden

BHA NO: 2	DATES RUN: 2014/07/16 TO 2014/07/18	SECTION: Main Hole	TOOLFACE OFFSET: 18 °	SURVEY OFFSET: 64 ft
MOTOR SETTING: 1.50 °	KICKPAD: No	STABILIZER: No	MODEL: 7857	SERIAL NO: 2191
			BHA SURVEY TYPE: Positive Pulse MWD	

(Distances are shown in feet.)

BIT		SURVEY				----- ORIENTING -----			----- ROTATING -----			SLIDE	BUR	BUR	COMMENTS
DEPTH	DRILLED	DEPTH	INC	AZM	TF	FROM	TO	FEET	FROM	TO	FEET	SEEN	/ft	/100ft	
5788.00	243.00	5724.00	0.00	0.00		5788.00	5788.00	0.00	5788.00	6031.00	243.00	0.00	0.00	0.00	
6031.00	962.00	5967.00	2.28	188.88	0M	6031.00	6061.00	30.00	6061.00	6993.00	932.00	0.00	0.00	0.94	
6993.00	96.00	6929.00	2.63	202.40	0M	6993.00	7018.00	25.00	7018.00	7089.00	71.00	30.00	0.01	0.04	
7089.00	577.00	7025.00	1.76	199.42	0M	7089.00	7109.00	20.00	7109.00	7666.00	557.00	25.00	-0.03	-0.91	
7666.00	423.00	7602.00	2.87	195.84	0M	7666.00	7676.00	10.00	7676.00	8089.00	413.00	20.00	0.06	0.19	
8089.00	264.00	8025.00	3.00	176.40	0M	8089.00	8112.00	23.00	8112.00	8353.00	241.00	10.00	0.01	0.03	
8353.00	111.00	8289.00	3.42	192.58	0M	8353.00	8388.00	35.00	8388.00	8464.00	76.00	23.00	0.02	0.16	
8464.00	87.00	8400.00	1.88	21905.0	0m	8464.00	8494.00	30.00	8494.00	8551.00	57.00	35.00	-0.04	-1.39	
8551.00	99.00	8487.00	1.51	211.86	0m	8551.00	8571.00	20.00	8571.00	8650.00	79.00	23.00	-0.02	-0.43	

Totals:	193.00 ft	2669.00 ft
Percentages:	6.7%	93.3%
Time:	6.72 hrs	23.10 hrs
Percentages:	22.5%	77.5%